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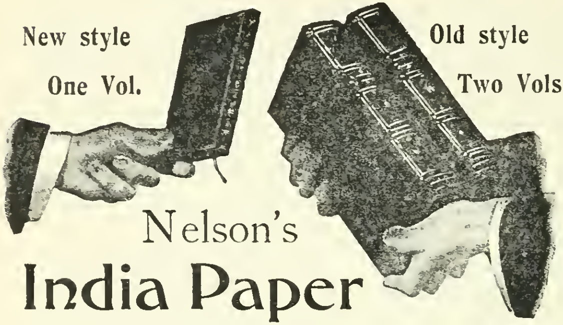
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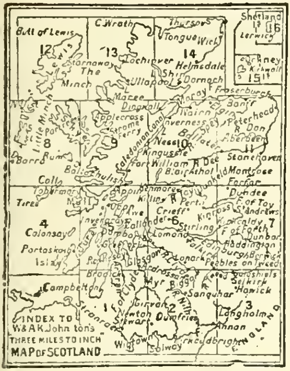

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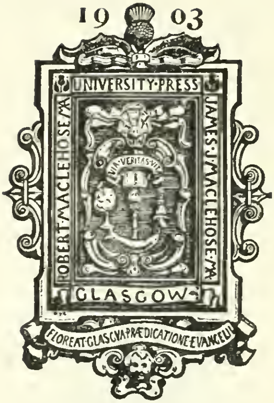
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AUGUST 1903.

1	S	
2	𝔖	
3	M	
4	Tu	
5	W	
6	Th	
7	F	
8	S	
9	𝔖	
10	M	
11	Tu	
12	W	
13	Th	
14	F	
15	S	Names of Candidates for Highland Society's Bursaries to be given in as directed on p. 383.
16	𝔖	
17	M	
18	Tu	
19	W	
20	Th	
21	F	
22	S	
23	𝔖	
24	M	
25	Tu	
26	W	
27	Th	
28	F	
29	S	
30	𝔖	
31	M	

SEPTEMBER 1903.

1	Tu	Names of Candidates for Bursaries in the gift of the Merchants' House, for Hutchesons' Educational Trust Bursaries, for Glasgow City Educational Endowments Bursaries, for James Laing Bursaries, for M'Crie Bursaries, for Marshall Trust Bursaries, for Pratt Bursaries, for William Whyte Bursary, and for Hannay Bursary to be given in as directed at p. 383. Names of Candidates for Ferguson Scholarships to be given in before this day.
2	W	
3	Th	
4	F	
5	S	
6	𝔖	
7	M	Names of Candidates for Preliminary Examination in Arts, Science, and Medicine, and Names of Competitors for Bursaries, to be given in to Assistant-Clerk (Matriculation Office).
8	Tu	
9	W	
10	Th	Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to Assistant-Clerk (Matriculation Office).
11	F	
12	S	
13	𝔖	
14	M	
15	Tu	
16	W	Names of Candidates for Degrees in Arts and Law, and for Scholarships, etc., to be given in to Assistant-Clerk (Matriculation Office).
17	Th	
18	F	
19	S	
20	𝔖	
21	M	
22	Tu	
23	W	
24	Th	Examination for Macdonald Bursary.
25	F	Preliminary and Bursary Examinations begin. (See pp. 191, 382.) Degree Examinations—Mathematics.
26	S	Degree Examinations—Education, Geology, Astronomy.
27	𝔖	
28	M	Degree Examinations—History (Hon.), Mathematics (Hon.). Zoology, Botany, Materia Medica, Engineering Laboratory, Constitutional Law, Civil (or Roman) Law. Competition for Lorimer Bursaries in Medicine. (Continued on 29th.)
29	Tu	Degree Examinations—Moral Philosophy, History (Hon.), Chemistry, Physics, Anatomy, Physiology, Engineering Drawing, Naval Architecture, Ship Design, Scots Law, Public International Law.
30	W	Degree Examinations—Logic, History (Hon.), Political Economy, Economic Science (Agric.), Engineering, Medical Jurisprudence and Public Health, Pathology, Philosophy of Law, International Private Law.

OCTOBER 1903.

1	Th	Theses for M.D. given in. Names of Candidates for Examination for M.D. to be given in. Degree Examinations—History (Ord. and Hon.), English Literature (Hon.), Mental Philosophy (Hon.), Engineering, Conveyancing, Medical Jurisprudence. Preliminary Examinations end. Additional Examinations in German and French for Bursaries. Meeting of University Court. Appointment of Preliminary Examiners and Members of Joint Board for next year. Appointment of Committees and of Representatives at Charitable and other Boards.
2	F	Degree Examinations—Natural Philosophy (Ord. and Hon.), English Literature (Hon.), French (Hon.), German (Hon.), Agriculture, Agric. Entomology, Mercantile Law. Additional Examinations in Mathematics, Latin, and Greek for Bursaries.
3	S	Degree Examinations—English Literature (Ord. and Hon.), Classics (Hon.), Natural Philosophy (Hon.), Veterinary Hygiene. Additional Examination in Dynamics for Bursaries. Examination for Arnott Prizes at 2 P.M.
4	𝔖	
5	M	Degree Examinations—Latin (Ord. and Hon.).
6	Tu	Degree Examinations—German (Ord. and Hon.).
7	W	Degree Examinations—French (Ord. and Hon.).
8	Th	Degree Examinations—Greek (Ord. and Hon.). Meeting of Senate—Election of Senate Members of Library and other Committees. Meeting of Classical and Modern Languages Committees of Joint Board.
9	F	Meeting of Joint Board. Degree Examinations—Hebrew (Arts).
10	S	Meeting of Joint Board.
11	𝔖	
12	M	
13	Tu	
14	W	Matriculation begins. Names of Candidates for Degree of B.D. and for Bursaries, etc., in Theology to be given in to Assistant-Clerk (Matriculation Office).
15	Th	Results of Bursary Competition declared. Opening of Winter Session.
16	F	
17	S	
18	𝔖	
19	M	
20	Tu	Examinations for B.D., and for Bursaries in Theology, 1st day. (See p. 261.)
21	W	Do. do., 2nd day.
22	Th	
23	F	
24	S	
25	𝔖	
26	M	
27	Tu	
28	W	(Last Wednesday.) Meeting of General Council.
29	Th	
30	F	
31	S	Applications for admission as Research Students to be lodged with the Clerk of Senate. Last day for giving in University Prize Essays. Names of Candidates for Diploma in Education to be given in to Assistant-Clerk (Matriculation Office).

NOVEMBER 1903.

1	𝔖	
2	M	
3	Tu	
4	W	
5	Th	Meeting of Senate. Graduation. Representatives at Charitable and other Boards elected.
6	F	Matriculation ends. Close of Enrolment in Classes.
7	S	
8	𝔖	
9	M	
10	Tu	
11	W	
12	Th	Meeting of University Court.
13	F	Examination for Diploma in Education.
14	S	
15	𝔖	
16	M	
17	Tu	
18	W	
19	Th	
20	F	
21	S	

NOVEMBER 1903.

22	𝔖	
23	M	
24	Tu	
25	W	
26	Th	
27	F	
28	S	
29	𝔖	
30	M	

DECEMBER 1903.

1	Tu	
2	W	
3	Th	Meeting of Senate. Vacancies in Bursaries ascertained.
4	F	
5	S	
6	𝔖	
7	M	
8	Tu	
9	W	
10	Th	Meeting of the University Court.
11	F	
12	S	
13	𝔖	
14	M	
15	Tu	
16	W	
17	Th	
18	F	
19	S	
20	𝔖	
21	M	Christmas Holidays commence.
22	Tu	
23	W	
24	Th	
25	F	
26	S	
27	𝔖	
28	M	
29	Tu	
30	W	
31	Th	

JANUARY 1904.

1	F	
2	S	
3	𝔖	
4	M	
5	Tu	First day on which the Classes meet after the Christmas Holidays.
6	W	
7	Th	Meeting of Senate. Intimation from the several Faculties of the Election of Deans. Appointment of Boards of Studies. Vacant Bursaries filled up. Report by Faculty of Arts on Logan Medal.
8	F	
9	S	Applications for Higher Degrees in Arts and Science (D.Litt., D.Phil., and D.Sc.) to be sent in to Clerk of Senate.
10	𝔖	
11	M	
12	Tu	
13	W	
14	Th	(Second Thursday.) Meeting of University Court.
15	F	Close of Enrolment in Classes which begin after Christmas Holidays.
16	S	
17	𝔖	
18	M	
19	Tu	
20	W	
21	Th	
22	F	
23	S	
24	𝔖	
25	M	
26	Tu	
27	W	
28	Th	
29	F	
30	S	
31	𝔖	

FEBRUARY 1904.

1	M	Theses for M.D. to be sent in. Holiday (Monday after last Friday of January).
2	Tu	Holiday (Candlemas Day).
3	W	
4	Th	Meeting of Senate. Reports of Committees on Honorary Degrees.
5	F	
6	S	
7	𝔖	
8	M	
9	Tu	
10	W	
11	Th	(Second Thursday.) Meeting of University Court. Arrangements for Summer Session.
12	F	
13	S	
14	𝔖	
15	M	
16	Tu	
17	W	
18	Th	
19	F	
20	S	
21	𝔖	
22	M	
23	Tu	
24	W	
25	Th	
26	F	
27	S	
28	𝔖	
29	M	Holiday (Monday after last Friday of February).

MARCH 1904.

1	Tu	Reports on Prize Essays.
2	W	
3	Th	Meeting of Senate. Schemes of Courses in Arts, Science, and Medicine to be sent by Professors and Lecturers to Conveners of Boards of Studies.
4	F	Names of Candidates for Preliminary Examination in Arts, Science, and Medicine, to be given in to Assistant-Clerk (Matriculation Office).
5	S	
6	𝔖	
7	M	
8	Tu	Names of Candidates for Degrees in Arts and Law to be given in to Assistant-Clerk (Matriculation Office).
9	W	
10	Th	Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to Assistant-Clerk (Matriculation Office). Meeting of University Court. Appoint Member of Committee of West of Scotland Marine Biological Station.
11	F	
12	S	
13	𝔖	
14	M	
15	Tu	
16	W	
17	Th	Meeting of Senate. Election of Commissioner to General Assembly. Snell Examiners appointed. Appointment to International Exhibition Scholarship.
18	F	
19	S	
20	𝔖	
21	M	
22	Tu	
23	W	
24	Th	Close of Winter Session.
25	F	Names of Candidates for Degree of B.D. to be given in to Assistant-Clerk (Matriculation Office). Preliminary Examinations in Arts, Science, and Medicine begin. (See p. 191.) Degree Examination—Mathematics.
26	S	Degree Examinations—Education, Astronomy, Geology.
27	𝔖	
28	M	Returns from Teachers of Elocution. Degree Examinations—History (Hon.), Mathematics (Hon.), Zoology, Botany, Materia Medica, Engineering Laboratory, Constitutional Law, Civil (or Roman) Law.
29	Tu	Degree Examinations—Moral Philosophy, History (Hon.), Chemistry, Physics, Anatomy, Physiology, Engineering Drawing, Naval Architecture, Ship Design, Scots Law, Public International Law.
30	W	Degree Examinations—Logic, History (Hon.), Political Economy, Economic Science (Agric.), Engineering, Medical Jurisprudence and Public Health, Pathology, Philosophy of Law, International Private Law.
31	Th	Preliminary Examinations end. Degree Examinations—History (Ord. and Hon.), English Literature (Hon.), Mental Philosophy (Hon.), Engineering, Conveyancing, Medical Jurisprudence, Divinity, Textual Criticism.

APRIL 1904.

1	F	Degree Examinations—Natural Philosophy (Ord. and Hon.), English Literature (Hon.), French (Hon.), German (Hon.), Agriculture, Agric. Entomology, Mercantile Law, Church History, Hermeneutics.
2	S	Degree Examinations—English Literature (Ord. and Hon.), Classics (Hon.), Natural Philosophy (Hon.), Veterinary Hygiene.
3	S	
4	M	Degree Examinations—Latin (Ord. and Hon.).
5	Tu	Degree Examinations—German (Ord. and Hon.).
6	W	(First Wednesday.) Meeting of General Council. Last day for returning Books to the Library. Degree Examinations—French (Ord. and Hon.).
7	Th	Degree Examinations—Greek (Ord. and Hon.). Meeting of Classical and Modern Languages Committees of Joint Board.
8	F	Degree Examinations—Hebrew (Arts) Meeting of Joint Board.
9	S	Meeting of Joint Board.
10	S	
11	M	
12	Tu	Meeting of Senate.
13	W	
14	Th	Meeting of University Court.
15	F	Names of Candidates for Diploma in Education to be given in to Assistant Clerk (Matriculation Office).
16	S	
17	S	
18	M	Library re-opened.
19	Tu	Graduation—Distribution of University Prizes.
20	W	Meeting of Senate—Election of Clerk and Assistant Clerks. Summer Session begins.

APRIL 1904.

21	Th	
22	F	
23	S	
24	𝔖	
25	M	
26	Tu	
27	W	
28	Th	
29	F	Examination for Diploma in Education.
30	S	

MAY 1904.

1	𝔖	
2	M	
3	Tu	Close of Matriculation and Enrolment in Classes.
4	W	
5	Th	Meeting of University Court.
6	F	
7	S	
8	𝔖	
9	M	
10	Tu	
11	W	
12	Th	
13	F	
14	S	
15	𝔖	
16	M	
17	Tu	
18	W	
19	Th	
20	F	
21	S	
22	𝔖	
23	M	
24	Tu	
25	W	
26	Th	Names of Candidates for Final Professional Examination in Medicine to be given in to Assistant-Clerk (Matriculation Office).
27	F	
28	S	
29	𝔖	
30	M	
31	Tu	

JUNE 1904.

1	W	Theses for M.D. given in.
2	Th	
3	F	
4	S	Last day for Professors sending in names of Assistants for 1904-5 to Secretary of University Court.
5	𝔖	
6	M	
7	Tu	
8	W	
9	Th	Meeting of University Court. Appointment of Lecturers, and of University Assistants.
10	F	
11	S	
12	𝔖	
13	M	
14	Tu	
15	W	
16	Th	Degree Examinations—Practice of Medicine, Surgery.
17	F	Do. Midwifery; Clinical Examinations begin.
18	S	
19	𝔖	
20	M	
21	Tu	
22	W	
23	Th	
24	F	
25	S	
26	𝔖	
27	M	
28	Tu	
29	W	
30	Th	

JULY 1904.

1	F	
2	S	
3	𝔖	
4	M	
5	Tu	
6	W	
7	Th	Meeting of University Court.
8	F	
9	S	
10	𝔖	
11	M	
12	Tu	
13	W	
14	Th	
15	F	
16	S	
17	𝔖	
18	M	
19	Tu	Meeting of Senate. Graduation in Medicine.
20	W	
21	Th	
22	F	
23	S	
24	𝔖	
25	M	
26	Tu	
27	W	
28	Th	
29	F	
30	S	
31	𝔖	

UNIVERSITY OFFICERS.

	Elected.	Electors.
Chancellor—The Right Hon. the Earl of Stair, K.T., LL.D.,	1884	General Council.
Vice-Chancellor—Robert Herbert Story, D.D., LL.D.,	1898	Chancellor.
Rector—The Right Honourable George Wyndham, M.P.,	1902	Matriculated Students.
Principal—Robert Herbert Story, D.D., LL.D.,	1898	Crown.
Dean of Faculties—The Right Hon. Lord Kelvin, G.C.V.O.,	1901	Senate.
Parliamentary Representative—The Right Hon. James A. Campbell, LL.D.,	1880	General Council.

University Court.

The Rector, *ex officio.* | The Principal, *ex officio.*

The Lord Provost of Glasgow, *ex officio.*

	Elected.	Electors.
Sir James King, Bart., LL.D.,	1887	Chancellor.
Allan F. Baird,	1902	Rector.
Robert M. Mitchell,	1899	Lord Provost, Magistrates, and Town Council of Glasgow.
Sir John N. Cuthbertson, LL.D.,	1889	General Council.
D. C. M'Vail, M.B.,	1891	
Sir James Bell, Bart.,	1899	
W. Robertson Copland,	1900	
Professor Stewart, D.D.,	1889	Senate.
Professor Muir, M.A., M.D. (1899),	1903	
Professor Moir, LL.D.,	1900	
Professor Raleigh, M.A.,	1902	

Senatus Academicus.[1]

President, - - - The Principal, - - - - 1898

Professors.

	Chairs.	Appointed
William Hastie, D.D.,	*Divinity*,	1895
George G. Ramsay, LL.D.,	*Humanity*,	1863
William Stewart, D.D.,	*Biblical Criticism*,	1873
T. M'Call Anderson, M.D.,	*Practice of Medicine*,	1900[2]

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[1] See note at foot of next page.

[2] Professor Anderson occupied the Chair of Clinical Medicine from 1874 till he was appointed to the Chair of Practice of Medicine in 1900.

PROFESSORS—*Continued.*	CHAIRS.	Appointed
John Ferguson, M.A., LL.D., F.S.A.,	*Chemistry,*	1874
John Gray M'Kendrick, M.D., LL.D., F.R.S.,	*Physiology,*	1876
James Robertson, D.D.,	*Hebrew and Semitic Languages,*	1877
John Cleland, M.D., LL.D., D.Sc., F.R.S.,	*Anatomy,*	1877
William Jack, LL.D.,	*Mathematics,*	1879
Frederick O. Bower, Sc.D., F.R.S.,	*Botany,*	1885
Alexander Moody Stuart, LL.D.,	*Law,*	1887
Archibald Barr, D.Sc.,	*Civil Engineering and Mechanics,*	1889
James Moir, LL.D.,	*Conveyancing,*	1889
John Harvard Biles, LL.D.,	*Naval Architecture, including Marine Engineering,*	1891
Sir William Macewen, M.D., Hon. F.R.C.S., LL.D., F.R.S.,	*Surgery,*	1892
Ludwig Becker, Ph.D.,	*Astronomy,*	1893
Murdoch Cameron, M.D.,	*Midwifery,*	1894
Henry Jones, LL.D.,	*Moral Philosophy,*	1894
William Smart, D.Phil., LL.D.,	*Political Economy,*	1896
Ralph Stockman, M.D.,	*Materia Medica,*	1897
John Glaister, M.D.,	*Forensic Medicine,*	1898
James Cooper, D.D.,	*Church History,*	1898
Robert Muir, M.A., M.D.,	*Pathology,*	1899
John S. Phillimore, M.A.,	*Greek,*	1899
Andrew Gray, LL.D., F.R.S.,	*Natural Philosophy,*	1899
Dudley J. Medley, M.A.,	*History,*	1899
Sir Hector C. Cameron, M.D.,	*Clinical Surgery,*	1900
Walter A. Raleigh, M.A.,	*English Language and Literature,*	1900
Samson Gemmell, M.D.,	*Clinical Medicine,*	1900
Robert Latta, M.A., D.Phil.,	*Logic and Rhetoric,*	1902
John Graham Kerr, M.A.,	*Natural History,*	1902

Note.—"The precedency of the Masters in point of ceremony shall, in all time coming, be, that the Professor of Divinity take place first after the Principal, and that all the other Masters and Professors of whatever kind take place of other according to the seniority and time of their admissions into their respective offices."—*Statute of Royal Visitation, 1727.*

Deans of the several Faculties.

Arts,	Professor Jones.
Science,	Professor Gray.
Medicine,	Professor Anderson.
Law,	Professor Glaister.
Theology,	Professor Stewart.

Lecturers.

David Yellowlees, M.D., LL.D.,	*Insanity.*
Thomas Barr, M.D.,	*Diseases of the Ear.*
J. Walker Downie, M.B.,	*Diseases of the Throat and Nose.*
James F. Gemmill, M.A., M.D.,	*Embryology.*
Wm. Galbraith Miller, LL.B.,	*Public International Law; International Private Law; and General Jurisprudence.*
Wm. S. M‘Kechnie, LL.B., D.Phil.,	*Constitutional Law and History.*
James M. Irvine, B.Sc., LL.B.,	*Civil Law.*
William Shaw,	*Mercantile Law.*
W. C. Anderson, D.Sc.,	*Metallurgical Chemistry.*
Matthew A. Parker, B.Sc.,	*Organic Chemistry.*
J. B. Henderson, D.Sc.,	*Electrical Engineering.*
Henry Bamford, M.Sc.,	*Engineering Drawing and Design.*
George Macdonald, M.A.,	*Classical Archæology.*
David A. Slater, M.A.,	*Humanity.*
William Rennie, M.A.,	*Greek.*
David H. Crawford, M.A.,	*Anglo-Saxon.*
John L. Morison, M.A.,	*British History.*
Charles Martin, M.A. (Paris), O.A.,	*French Language and Literature.*
George P. Thistlethwaite, B.A., Ph.D.,	*German Language and Literature.*
Thomas H. Weir, B.D.,	*Hebrew and Arabic or Syriac.*
Robert A. Duff, M.A.,	*Political Philosophy.*
John Clark, M.A.,	*Education.*
David K. Picken, M.A.,	*Mathematics.*
Robert J. T. Bell, M.A., B.Sc.,	

James W. Peck, M.A., - - -	- *Physics.*
James Muir, D.Sc., - - -	- *Electricity, Pure and Applied.*
Charles Latham, - - -	- *Mining.*
—— ——, -	- *Celtic.*
Émile Boutroux, - - -	- *Natural Theology* (Gifford Foundation), 1903-5.
Fernando Agnoletti, - - -	- *Italian Language and Literature.*
* John M'Crae, Ph.D., - .	- *Chemistry.*
* Thomas H. Bryce, M.A., M.B.,	- *Anatomy.*
* William MacLennan, M.B., C.M.,	- *Materia Medica.*
* Charles Workman, M.D., - -	- *Pathology.*
* J. H. Pringle, F.R.C.S., - -	- *Surgery.*
—— ——, -	- *Practice of Medicine.*
* A. M. Ramsay, M.D., - -	- *Diseases of the Eye.*
* David H. Crawford, M.A., -	- *English Language and Literature.*
* Norman Smith, M.A., D.Phil., -	- *Logic.*
* Robert A. Duff, M.A., - -	- *Moral Philosophy.*
* James Blyth, M.A., LL.D., F.R.S.E.,	*Natural Philosophy.*
* William H. Lang, D.Sc., - -	- *Botany.*

Boards of Studies.—1903-4.

In Arts. *Language and Literature.*—The Principal, the Dean of the Faculty of Arts, Professors Ramsay, Robertson, Phillimore, and Raleigh, Messrs. Macdonald, Slater, Weir, Crawford, Martin, Thistlethwaite, and Agnoletti.—Professor Raleigh, *Convener.*

Mental Philosophy.—The Principal, the Dean of the Faculty of Arts, Professors Smart, Phillimore, and Latta, Messrs. R. A. Duff, Norman Smith, and John Clark.—Professor Jones, *Convener.*

Science.—The Principal, the Dean of the Faculty of Arts, Professors Ferguson, Jack, Bower, Becker, Gray, and Kerr, Drs. Blyth, and Lang.—Professor Jack, *Convener.*

History and Law.—The Principal, the Dean of the Faculty of Arts, Professors Medley and Raleigh, Dr. M'Kechnie, and Messrs. Irvine and Morison—Professor Medley, *Convener.*

English (Language, Literature, and British History).—The Principal, the Dean of the Faculty of Arts, Professors Ramsay, Phillimore, Medley, and Raleigh, Dr. M'Kechnie, and Messrs. Morison and Crawford.—Professor Raleigh, *Convener.*

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* Lecturers at Queen Margaret College.

Economic Science.—The Principal, the Dean of the Faculty of Arts, Professors Smart and Medley, Dr. M'Kechnie, and Messrs. W. G. Miller and Irvine.—Professor Smart, *Convener.*

In Science.—Professors Ferguson, M'Kendrick, Cleland, Jack, Bower, Barr, Biles, Becker, Gray, and Kerr, Dr. W. C. Anderson, Dr. J. B. Henderson, Dr. Lang, Dr. Blyth, and Messrs. M. A. Parker, Bamford, and Latham.—Professor Gray, *Convener.*

In Medicine.—Professors Anderson, Ferguson, M'Kendrick, Cleland, Bower, Sir William Macewen, Murdoch Cameron, Stockman, Glaister, Muir, Gray, Sir Hector C. Cameron, Gemmell, and Kerr, Drs. Yellowlees, Thomas Barr, Downie, Workman, A. M. Ramsay, Bryce, Pringle, Maclennan, J. F. Gemmill, Blyth, and Lang—the Dean of the Faculty of Medicine, *Convener.*

University Assistants or Demonstrators.

Humanity, - - - -	David A. Slater, M.A. Daniel Rankin, B.A.
Greek, - - - - -	William Rennie, M.A.
English Language and Literature, - - - -	David H. Crawford, M.A. D. Nichol Smith, M.A.
Hebrew and Semitic Languages,	Thomas H. Weir, B.D.
Logic, - - - - -	Norman Smith, M.A., D.Phil.
Moral Philosophy, - -	Robert A. Duff, M.A.
Political Economy, - -	Thomas Jones, M.A. Stanley H. Turner, M.A.
Mathematics, - - - -	David K. Picken, M.A. Robert J. T. Bell, M.A., B.Sc.
Natural Philosophy, - -	James W. Peck, M.A. James Muir, D.Sc. James G. Gray, B.Sc.
Arnott and Thomson Demonstrator in *Experimental Physics,* - - - -	James Muir, D.Sc.
History, - - - -	John L. Morison, M.A.
Civil Engineering and Mechanics, - - - -	Harry Bamford, M.Sc. James B. Henderson, D.Sc. William Alexander. John S. Nicholson, B.Sc.
Naval Architecture, - -	Charles S. Douglas, B.Sc.

Botany, - - - -	William H. Lang, D.Sc., M.B., C.M. D. T. Gwynne Vaughan, M.A.
Natural History, - - -	E. J. Bles, B.A., B.Sc.
Baxter Demonstrator in *Geology*,	Frederick Mort, M.A., B.Sc.
Chemistry, - - - -	William C. Anderson, D.Sc., M.A. Matthew A. Parker, B.Sc. James Roberts, F.C.S.
Anatomy, - - - -	James F. Gemmill, M.A., M.D. William K. Hutton, M.A., M.B., C.M. Archibald N. M'Lellan, M.B., C.M. Wm. D. H. Stevenson, M.A.
Physiology, - - - -	Walter Colquhoun, M.A., M.B., C.M. (Muirhead Demonstrator). John P. Duncan, B.Sc., M.B., Ch.B.
Materia Medica. - - -	Francis J. Charteris, M.B., Ch.B.
Pathology, - - - -	Alexander R. Ferguson, M.D. John H. Teacher, M.A., M.B., C.M.
Forensic Medicine, - -	George A. Brown, M.B., C.M., D.P.H.
Surgery, - - - - -	J. A. C. Macewen, B.Sc., M.B., C.M.
Clinical Surgery (Sir William Macewen), - - -	Peter Paterson. M.B., C.M.
Clinical Surgery (Sir H. C. Cameron), -	Alfred A. Young, M.A., M.B., C.M.
Practice of Medicine, - -	William R. Jack, B.Sc., M.D. John W. Nicol, M.B., C.M.
Clinical Medicine (Dr. Anderson), - - -	William R. Jack, B.Sc., M.D. James Hinshelwood, M.A., M.D.
Clinical Medicine (Dr. Gemmell),	James C. M'Clure, M.B., C.M.
Midwifery, - - - -	John M. M. Kerr, M.B., C.M.
Conveyancing, - - -	William Guy.

Examiners for Degrees.

In Divinity.—The Professors in the Faculty of Theology, assisted by the Rev. John Maclean, D.D., and the Rev. Henry Bremner, D.D.

In Law.—The Professors and Lecturers in the Faculty of Law, assisted by

Robert B. Taylor, M.A., - - - - -	1900
Hugh P. Macmillan, LL.B., - - - -	1902

F. G. Mackillop, LL.B.,	1902
A. A. Mitchell, LL.B.,	1902

In Medicine.—The Professors and Lecturers in the Faculty of Medicine, as specified in Section XXIV. of Ordinance No. 14, and the following Additional Examiners:—

B. C. A. Windle, M.A., M.D., D.Sc.	1900	Albert Carless, M.B.	1901
H. Harvey Littlejohn, M.A., M.B., B.Sc.	1900	William Hunter, M.D.	1901
R. J. Harvey Gibson, M.A.	1900	Ebenezer Duncan, M.D.	1902
Robert Jardine, M.D.	1900	Magnus Maclean, D.Sc.	1902
De Burgh Birch, M.D.	1901	Sydney Jones, M.B.	1902
James Ritchie, M.D.	1901	R. B. Ness, M.D.	1902
		D. R. Boyd, D.Sc.	1902
		Sidney F. Harmer, D.Sc.	1903

In Arts.—The Professors and Lecturers in the Faculty of Arts, as specified in Section XIV. of Ordinance No. 13, assisted by the following Additional Examiners:—

—— ——,	Classics,	—
Robert B. Pattie, B.D.,	Hebrew,	1900
William F. Trotter, M.A.,	Logic and Moral Philosophy,	1901
Thomas Bayne,	English,	1901
Robert B. Taylor, M.A.,	Political Economy,	1901
Arthur Hassall, M.A.,	History,	1901
Stewart A. Robertson, M.A.,	Education,	1901
Alec Cran, M.A.,	French,	1901
Louis Lubovius, Ph.D.,	German,	1901
George A. Gibson, M.A.,	Mathematics & Nat. Philosophy,	1902
D. R. Boyd, D.Sc.,	Chemistry,	1902
F. G. M'Killop, LL.B.,	Roman Law,	1902
A. A. Mitchell, LL.B.,	Philosophy of Law,	1902
Sidney F. Harmer, D.Sc.,	Zoology,	1903

In Science.—Professor Ferguson, LL.D., Professor M'Kendrick, M.D., Professor Cleland, M.D., Professor Jack, LL.D., Professor Bower, Sc.D., Professor Barr, D.Sc., Professor Biles, LL.D., Professor Becker, Ph.D., Professor Gray, LL.D., assisted by additional examiners.

Preliminary Examiners in Arts, Science, and Medicine.—† Professor Ramsay, LL.D., Professor Jack, LL.D., Professor Phillimore, M.A., Professor Medley, M.A., †Professor Raleigh, M.A., Robert G. Nisbet, M.A., George Macdonald, M.A., Robert J. T. Bell, M.A., B.Sc., Charles Martin, M.A., † Alec Cran, M.A., George P. Thistlethwaite, Ph.D., Louis Lubovius, Ph.D., †Alex. V. Lothian, M.A., B.Sc., Robert B. Pattie, B.D., A. M. Williams, M.A., Archibald Revie.

Other Officials.

Secretary to the University Court,	Alan E. Clapperton, B.L., 91 West Regent Street.
Clerk of Senate,	Professor Stewart, D.D., 18 Annfield Terrace, Partickhill.
Assistants to the Clerk of Senate,	W. Innes Addison, Matriculation Office. James Coutts, M.A., Registration Office. Miss Galloway, Secretary at Queen Margaret College.
Registrar of the General Council,	James Coutts, M.A.
Clerk of the General Council,	Archibald Craig, LL.B., 156 St. Vincent Street.
Librarian,	James Lymburn.
Sub-Librarian,	James L. Galbraith.
Assistant Librarians,	William Weatherston, Mungo Ferguson, M.A., Robert Burdon.
Curator of Hunterian Library and Coins,	George Macdonald, M.A.
Under-Keeper of Hunterian Museum,	John Mackay.
„ *(Pathological Department),*	John H. Teacher, M.A., M.B., C.M.
Factors,	Hill & Hoggan, 194 Ingram Street.
Law-Agents,	Mitchells, Johnston & Co., 160 West George Street.
Auditors,	Brown, Fleming & Murray, 163 West George Street.
Publishers and Booksellers to the University,	James MacLehose & Sons, 61 St. Vincent Street.
Printers to the University,	Robert MacLehose & Co., 153 West Nile Street.

† Members of the Joint Board.

Robe Makers to the University, - - - -	James Thomson & Son, 191 West George Street.

HEAD SERVANTS.

Bedellus and Janitor, - -	George P. Gibson.
Master of Works, - - -	John Stitt.

Representatives of the University Court on Charitable and other Boards.

General Medical Council—Professor Anderson, M.D.
Western Infirmary—Mr. Matthew Arthur and Mr. David Johnston.
Victoria Infirmary—Dr. M'Vail and John Hutchison, LL.D.
West of Scotland Agricultural College—Dr. M'Vail.
Glasgow Samaritan Hospital for Women—Dr. M'Vail.
Highlands and Islands Educational Trust—H. P. Macmillan, LL.B., Advocate.
Stirling Educational Trust—Mr. Charles King.
West of Scotland Biological Association—Thomas Reid, M.D., LL.D.

Representatives of the Senate on Educational and other Boards.

Glasgow and West of Scotland Technical College—Professors Bower and Gray.
West of Scotland Agricultural College—Professor Stewart.
Glasgow City Educational Endowments Board—Professor Stewart.
Glasgow General Educational Endowments Board—Professors Stewart and Medley.
Glasgow School of Art—Professor Raleigh.
Hutchesons' Educational Trust—Professor Ramsay.
John Clark (Mile-End) Bursary Trust—Professor Stewart.
Scott Scholarship and Bursaries Trust—Professors Ramsay and Raleigh.
Western Infirmary—Professors Jones and M'Kendrick.
Royal Infirmary—Professor Glaister.
Asylum for the Blind—Professor Ramsay.
Glasgow Convalescent Home—Professor Murdoch Cameron.
Baillie's Institution—Professor Ferguson.
Haldane Trust—Professor Cleland.

Joint Committees of Senate and Court.

Library Committee.

Appointed by the Senate—Professors Hastie, Ferguson, Medley Moir, Raleigh, and Glaister.

Appointed by the University Court—Dr. David Murray, Mr. W. R. Copland, and Mr. William Ker.

MUSEUMS COMMITTEE.

Appointed by the Senate—The Principal and Professors Cleland, Bower, and Kerr.

Appointed by the University Court—Dr. M'Vail and Mr. R. M. Mitchell.

OBSERVATORY AND LABORATORIES COMMITTEE.

Appointed by the Senate—Professors Ferguson, M'Kendrick, Becker, and Gray.

Appointed by the University Court—Sir James King, Bart., and Mr. W. R. Copland.

The Carnegie Trust for the Universities of Scotland.

Trustee representing Glasgow University—Professor Stewart.

Committee on Civil Service and other External Examinations.

Professors Jack, Bower, Jones, Smart, Phillimore, Gray, Medley, and Latta, Messrs. J. M. Irvine and J. W. Peck—Professor Jones, *Convener.*

Local Committee for the Training of Teachers.

Chairman—Professor Latta. *Secretary*—Mr. John Clark, M.A.

Appointments Committee.

The Principal, Professors Ramsay, Stewart, Glaister, Muir, Gray, Medley, Raleigh, Latta, and Kerr, and M. Martin—Professor Latta, *Convener*, and Mr. Addison, *Secretary.*

Students' Representative Council.

President—D. A. Dick.

Vice-Presidents—John Chambers ; D. F. Riddell, M.A.

Secretary—Geo. J. Spreull, M.A., 8 Kelvinside Terrace, North.

Assistant Secretaries—John M. Pryde, M.A. (Divinity) ; R. Harvey, (Arts) ; D. G. Hunter, M.A. (Medicine) ; N. J. Maclean (Science) ; Patrick Spens, M.A. (Law) ; and Annie Black (Queen Margaret College).

Treasurer—John Bain, Students' Union.

Executive Committee:—The Office-Bearers, with
- *Arts*—J. E. Scott, E. H. Jones.
- *Medicine*—R. N. Guthrie, D. J. M'Leish, M.A., B.Sc.
- *Queen Margaret College*—Mary Wilson (Arts) ; Florence Mann (Medicine).

I.—THE UNIVERSITY.

The University of Glasgow is a corporate body, which has always included a Chancellor, Rector, Dean of Faculties, Principal, Professors, and Students. It was originally founded, like most other ancient establishments of the same nature, by the authority of the See of Rome. Pope Nicholas V., by a bull, dated the seventh of January, 1450-1, erects and establishes in Glasgow a "*Studium Generale . . . tam in theologia ac jure canonico et civili, quam in artibus, et quavis alia licita facultate.*" He then declares that this University shall have the same power of creating Masters and Doctors as any other "*studium generale*" in Christendom, and appoints the Bishop of Glasgow and his successors, Chancellors and Rectors by his authority. In the same year a body of statutes was prepared, and the University established by the exertions of the Bishop and his Chapter. It consisted, at this time, of the Chancellor and Rector, of various Masters and Doctors in the Faculties of Theology, Canon Law, and the Arts; and, lastly, of the incorporated students in these Faculties, who might be promoted to the same degrees in each, after following out the course of study prescribed in the statutes.

The University, at this time, had received no endowments, and was possessed of no property, except a University purse, into which were put some small perquisites on conferring degrees, and the patronage of two or three small chaplainries. It continued, however, to discharge its important functions with great zeal and activity, and attracted a greater number of members than could well have been expected in that rude period of society. The University Records contain little information as to lectures delivered in the Higher Faculties, or the number of the students who attended them. But we learn that within three or four years after the establishment of the University, so many young men were matriculated in the Faculty of Arts, that it was thought expedient to provide a house in which they might reside, and to secure a regular set of teachers for their instruction.

The house provided for the accommodation of the students in Arts was known by the name of Pædagogium, or the College of Arts. It is said to have been situated in the Rottenrow; but in the year 1460, James, Lord Hamilton, bequeathed to Mr. Duncan Bunch, principal Regent of the College of Arts, and his successors, Regents, for the use of the said College, a tenement in the High Street, with four acres of land adjoining. In buildings situated on this ground the classes of the University continued to meet for upwards of four hundred years.

The Reformation produced at first great disorder in the University, its members being clergymen of the Catholic persuasion, and its chief support being derived from the Church. In 1577, James VI. prescribed very particular rules with regard to the College and the form of its government, and made a considerable addition to its funds. The charter by which the king made these regulations, and gave that property, is known by the name of *Nova Erectio.*

By this charter, provision was made for the support of a Principal, who was to teach Theology and the Holy Scriptures, and was also Professor of Hebrew and Syriac, and three Regents, of whom one was to teach Greek and Rhetoric, another Dialectics, Morals, and Politics, with the Elements of Arithmetic and Geometry, and the third, who was also Sub-Principal, was to teach all the branches of Physiology and Geography, Chronology and Astrology. The Regents were to keep each by his own Profession, so that the student had a new Regent every year.[1]

From this small beginning, the University continued to prosper till the era of the Restoration, having at that time, besides the Principal, two Professors of Theology, one of Medicine, four Regents or Professors of Philosophy, and one of Humanity, a Librarian, with a tolerable Library, an increased number of Bursars and of other students of all ranks. At the Restoration, however, being deprived of a great part of its revenues in consequence of the re-establishment of Episcopacy, three of the Professorships fell into abeyance, and the College was again reduced to a Principal, a Professor of Theology, and four Regents. This state of matters continued till the Revolution, when the University again began to prosper after a long period of depression.[1] In the next thirty years seven Professorships were either originally founded or revived, viz. :—those of Mathematics (1691), Humanity (1706), Oriental Languages (1709), Civil Law (1712), Medicine (1712), Church History (1716), and Anatomy (1718); and to these a Professorship of Astronomy was added in 1760. The remaining eighteen Professorships were founded during the present century, viz. :—Natural History, (1807), Surgery (1815), Midwifery (1815), Chemistry (1817), Botany (1818), Materia Medica (1831), Institutes of Medicine (1839), Forensic Medicine (1839), Civil Engineering (1840), Conveyancing (1861), English Language and Literature (1861), Divinity and Biblical Criticism (1861), Clinical Surgery (1874), Clinical Medicine (1874), Naval Architecture (1883), History (1893), Pathology (1893), Political Economy (1896).

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[1] This system was altered in 1642, in accordance with the practice of the other Universities; but returned to after the Revolution. The four classes necessary to Graduation in Arts were called—the first, Bajan; the second, Semi; the third, Baccalour; the fourth, Magistrand.

UNIVERSITY BUILDINGS.

The changes in the City of Glasgow having so entirely altered the character of the district in which the University Buildings were planted in the fifteenth century as to render the locality altogether unsuitable for an Academic Institution; and the buildings themselves having become, by their limited extent and defective construction, inadequate for the modern requirements of a great educational establishment; measures were adopted for the removal of the University to more extended and commodious buildings, and for this purpose a large extent of ground was secured in the lands of Gilmorehill, in the western part of the City.

In 1846, a Bill for the sale of the College grounds and buildings to the Monklands Junction Railway Company, and the transference of the University to a new site on Woodlands, was passed by both Houses of Parliament, and received the Royal assent. But that measure failed by the inability of the Railway Company to implement their engagements; and the Senate of the University found no favourable opportunity for the renewal of the scheme, till the year 1863, when a proposal for the purchase of the College lands and buildings was made by the City of Glasgow Union Railway Company, and a sale was accordingly effected to that Company, under their Act of Parliament, in 1864, at the price of £100,000.

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[1] See Dr. Thomas Reid's Account of the University of Glasgow.

The funds at the disposal of the University to carry out the scheme of removal consisted of—(1.) The produce of the sale of the old College and grounds, £100,000,—(2.) A sum of £17,500, consisting of the principal sum of £10,000, obtained by the University as compensation from the Monklands Junction Company, for non-fulfilment of their agreement, with interest since the time of payment, and—(3.) A sum of £21,400, promised by her Majesty's Government in aid of the scheme of removal, conditionally on a further sum of £24,000 being raised by public subscription, for the erection of a sick hospital in connection with the new University Buildings.

With these funds at their disposal, buildings might have been erected sufficient for the transaction of the ordinary business of instruction in the same manner as heretofore, and for the accommodation of the Library and Museum, but they must have been of the plainest design, and on a scale quite inadequate to provide for the future extension of the University.

In these circumstances, the Senate resolved to make an earnest appeal for aid to the Government and to the public. This appeal was responded to in the most generous and gratifying manner. In a short time a sum of nearly £100,000 was subscribed, chiefly in the City of Glasgow; and the Government, appreciating the importance of the work, and the public interest it had excited, announced their intention to ask Parliament for the sum of £120,000, in six annual instalments, on condition of a like amount being raised by subscription and expended on the buildings. This sum was paid out of the National Treasury, and there has been received from the public subscription for the University Buildings and the Western Infirmary and from legacies the large amount of £261,429, including £45,000 from the Marquis of Bute for the erection of the Bute Hall, £5,000 from Dr. J. M'Intyre for the University Union Buildings, £5,000 from the Bellahouston Trustees for Medical Buildings in the Women's department, £4,274 from the late Sir William Pearce, Bart., for the removal of the old College front and the re-erection of the materials at the north-east gateway, £5,000 bequeathed by Mr. Andrew Cunninghame, and £1,000 (less legacy duty) bequeathed by Mr. James Marshall for the completion of the tower, and special subscriptions amounting to £2,600 for building and furnishing the Gymnasium. A sum of £30,000 was allocated to the Western Infirmary. New buildings, designed by the late Sir G. Gilbert Scott, were erected on the grounds of Gilmorehill; and in these buildings the classes of the University met for the first time in session 1870-71. In 1893 the buildings and grounds were extended by the gift of North Park House and Grounds for the use of the women students of the University. Extensive additions to the buildings at Gilmorehill have recently been made, including Engineering Lecture-rooms and Laboratory, Botany Class-rooms, Museum and Herbarium, and an extension of the Anatomical Department. The cost of these additions will be defrayed from the Randolph Bequest and from funds provided by the Bellahouston Trustees, the Trustees of the late James B. Thomson, and other benefactors.

GOVERNMENT OF THE UNIVERSITY.

Previous to the Universities Act of 1858 the whole business of the University was transacted in three distinct courts—namely, the Senate, the Faculty, and the Comitia.

The *Senate* consisted of the Rector, the Dean, the Principal, and all the Professors of the University. Meetings of the Senate were held for conferring degrees, and for the management of the libraries and other matters belonging to the University.

The *Faculty*, or College Meeting, consisted of the Principal, who presided, and the Professors of Divinity, Church History, Oriental Languages, Natural Philosophy, Moral Philosophy, Mathematics, Logic, Greek, Humanity, Civil Law, Medicine, Anatomy and Practical Astronomy. The Members of Faculty had the administration of the whole revenue and property of the College, along with the right of exercising the patronage of eight professorships vested in the College. They also presented a Minister to the parish of Govan, and had the gift of various bursaries.

The Constituent Members of the *Comitia* were the Rector, the Dean, the Principal, the Professors, and the Matriculated Students of the University. The Rector or Vice-Rector presided in this Court, and also in the Senate. Meetings of the Comitia were held for the election and admission of the Rector, for hearing the inaugural discourses of the Principals and Professors previously to their admission to their respective offices, and for promulgating the laws of the University.

Besides these a court, called the *Jurisdictio Ordinaria*, consisting of the Principal, the four Regents (viz., the Professors of Greek, Logic, Ethics, and Physics), and the Professor of Humanity, with the gowned students, met occasionally, for the exercise of discipline over the junior students.

By the Scottish Universities Act, 21 and 22 Vict., chap. 83, important changes were made in the constitution and government of the University. The distinction between the Faculty and the Senate was abolished; two new bodies, called the University Court and University Council, were instituted; and Commissioners were appointed, armed with extensive powers of revision and regulation, who issued ordinances, sanctioned by Her Majesty, for the administration of the affairs of the University.

Further changes were made by the Universities (Scotland) Act, 1889. A Committee of Her Majesty's Privy Council was constituted, styled the Scottish Universities Committee of the Privy Council. An Executive Commission was created with power to repeal or modify any ordinance made under the Act of 1858. The Commissioners continued to exercise their powers till the end of 1897 and issued ordinances, *inter alia*, for Degrees in Arts, Science, Medicine, Law, and Divinity, for the instruction and graduation of Women, and for special study and research. They also issued an ordinance (No. 60) laying down regulations for the constitution of the Students' Representative Council, and regulations under which that Council is entitled to petition the Senatus Academicus and the University Court.

CHANCELLOR.

The Chancellor is the head of the University, and, by himself or his deputy, has the privilege of conferring Academical Degrees upon persons found qualified by the Senate. All changes in the internal arrangements of the University must have the sanction of the Chancellor before being carried into effect. He is elected by the General Council, of which he is president. His office is held during life. He nominates an Assessor in the University Court, and he is empowered to appoint a Vice-Chancellor to discharge his office in his absence, so far as regards conferring Degrees, but in no other respect. The office of Vice-Chancellor has usually been, and is now, held by the Principal.

Chancellors from the year 1642.

1642. James Hamilton Marquis of Hamilton.
1660. William Cunningham, Earl of Glencairn.
1661. Andrew Fairfowl, Archbishop of Glasgow.
1664. Alexander Burnett, ,, ,,
1670. Robert Leighton, ,, ,,
1674. Alexander Burnett, ,, ,,
1679. Arthur Ross, ,, ,,
1684. Alexander Cairncross, ,, ,,
1687. John Paterson, ,, ,,
1692. John Carmichael, Earl of Hyndford.
1714. James Graham, Duke of Montrose.
1743. William Graham, ,, ,,
1781. James Graham, ,, ,,
1837. James Graham, ,, ,,
1875. Sir William Stirling-Maxwell, Bart., M.P.
1878. Walter Francis, Duke of Buccleuch and Queensberry, K.G.
1884. John Hamilton Dalrymple, Earl of Stair, K.T.

RECTOR.

The Rector is elected by the matriculated students of the University, divided into four nations.[1] In the case of an equality of nations the Chancellor had, in accordance with the Act of 1858, the casting vote, but under the Act of 1889 the Commissioners have ordained (Ord. No. 7) that the election shall be determined by the majority of votes of all the students voting whenever the votes of the nations shall be equally divided. The Universities Commission (1858) ordained that the election should take place upon the 15th November (the

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[1] The nations are constituted as follows :—

1. The Natio Glottiana consists of all matriculated students born within the County of Lanark.

2. The Natio Transforthana consists of all matriculated students born within any of the Counties of Orkney and Shetland, Caithness, Sutherland, Ross, Inverness, Cromarty, Nairn, Moray, Banff, Aberdeen, Perth, Forfar, Kincardine, Clackmannan, Fife, Kinross, Argyle, Stirling, and Dumbarton.

3. The Natio Rothseiana consists of all matriculated students born within any of the Counties of Bute, Renfrew, and Ayr.

4. The Natio Loudoniana consists of all matriculated students not included in any of the other nations.

16th, if the 15th fell on a Sunday); but by Ordinance No. 139 of the Universities Commission (1889), the election is to take place on such day in the month of October or November as may be fixed by the University Court after consultation with the Senate, but the date cannot be later than the second Saturday in November in any year. The term of office is three years. The Rector is the official President of the University Court.

Rectors from 1773.

1773. Charles Cathcart, Lord Cathcart.
1775. Lord Chief Baron Montgomerie.
1777. Andrew Stewart, Esq. of Torrance.
1779. James Maitland, seventh Earl of Lauderdale.
1781. Right Hon. Henry Dundas.
1783. Right Hon. Edmund Burke.
1785. Robert Graham, Esq. of Gartmore.
1787. Adam Smith, LL.D.
1789. Walter Campbell, Esq. of Shawfield.
1791. Thomas Kennedy, Esq. of Dunure.
1793. William Mure, Esq. of Caldwell.
1795. William M'Dowall, Esq. of Garthland.
1797. George Oswald, Esq. of Auchincruive.
1799. Right Hon. Sir Ilay Campbell, Lord President.
1801. William Craig, a Lord of Session.
1803. Lord Chief Baron Dundas.
1805. Henry Glassford, Esq. of Dugalston.
1807. Archibald Colquhoun, Esq. of Killermont.
1809. Archibald Campbell, Esq. of Blythswood.
1811. Lord Archibald Hamilton.
1813. Thomas Graham, Lord Lynedoch.
1815. David Boyle, Lord Justice Clerk.
1817. George Boyle, Earl of Glasgow.
1819. Kirkman Finlay, Esq., M.P.
1820. Francis Jeffrey, Esq., Advocate.
1822. Sir James Mackintosh, M.P.
1824. Henry Brougham, Esq., M.P.
1826. Thomas Campbell, LL.D.
1829. Henry Petty, Marquis of Lansdowne.
1831. Henry Cockburn, Esq., Solicitor-General.
1834. Lord Stanley, M.P.
1836. Sir Robert Peel, Bart., M.P.
1838. Sir J. G. R. Graham, Bart., M.P.
1840. John Campbell, Marquis of Breadalbane.
1842. Right Hon. Fox Maule, M.P.
1844. Andrew Rutherford, Esq.
1846. Lord John Russell.

1847. Colonel Mure of Caldwell.
1848. Thomas Babington Macaulay, Esq.
1850. Archibald Alison, Esq., Sheriff of Lanarkshire.
1852. Earl of Eglinton.
1854. Duke of Argyle.
1856. Sir Edward Bulwer Lytton.
1859. Earl of Elgin.
1862. Viscount Palmerston.
1865. John Inglis, Lord Justice Clerk.
1868. Lord Stanley (afterwards Earl of Derby).
1871. Right Hon. Benjamin Disraeli, M.P. (Earl of Beaconsfield).
1877. Right Hon. William Ewart Gladstone, M.P.
1880. Right Hon. John Bright, M.P.
1883. Right Hon. Henry Fawcett, M.P.
1884. Edmund Law Lushington, LL.D., D.C.L.
1887. Right Hon. Earl of Lytton, G.C.B., G.C.S.I., C.I.E.
1890. Right Hon. Arthur James Balfour, M.P.
1893. Right Hon. Sir John Eldon Gorst, M.P.
1896. Right Hon. Joseph Chamberlain, M.P.
1899. Right Hon. Earl of Rosebery, K.G., D.C.L., LL.D.
1902. RIGHT HON. GEORGE WYNDHAM, M.P.

DEAN OF FACULTIES.

From the beginning there has been in the University an officer of dignity with the title of Dean of Faculty or Dean of Faculties. The duties of the office, as originally constituted, were to exercise a superintendence over the studies, and, in conjunction with the Masters, to judge of the qualifications of applicants for degrees. From the year 1772 it was the duty of the Dean, in concert with the Rector and the Minister of Glasgow, to examine the accounts of the administration of the Revenue, and to give advice to the Principal and Professors, when it was necessary for them to institute a judicial inquiry into the conduct of any of their number. By the Universities Act of 1858 the Dean of Faculties was a member of the University Court, but in the enumeration of the constituent members of the new University Court in the Act of 1889 the name does not occur. The election is made annually by the Senate at the close of the winter session.

Deans from the year 1800.

1800. James Couper, D.D.
1802. Archd. Campbell, Esq. of Succoth.
1804. Gavin Gibb, D.D.
1806. Duncan Macfarlan, D.D.
1808. Gavin Gibb, D.D.
1810. Duncan Macfarlan, D.D.
1812. Gavin Gibb, D.D.
1814. Stevenson Macgill, D.D.
1815. Archibald Campbell, Esq., M.P.
1817. Sir John Connel.
1819. Archibald Campbell, Esq., M.P.
1821. Sir John Connel.
1823. Archibald Campbell, Esq., M.P.
1825. Sir John Connel.
1827. Archibald Campbell, Esq., M.P.
1829. Sir John Connel.
1831. Archibald Campbell, Esq.
1833. Sir A. Campbell, Bart.
1835. Archibald Campbell, Esq.
1837. Sir A. Campbell, Bart.
1839. Kirkman Finlay, Esq.
1841. Lord Dunfermline.
1843. Sir T. Makdougall Brisbane, Bart.
1845. A. Maconochie, Lord Meadowbank.
1847. Earl of Eglinton.
1849. Colonel Mure of Caldwell, M.P.
1851. W. Lockhart, Esq., M.P.
1853. Colonel Mure.
1854. W. Lockhart, Esq.
1857. W. Stirling, Esq., of Keir, M.P.
1860. J. Moncreiff, Lord Advocate.
1863. Sir A. I. Campbell of Succoth.
1865. Henry Glassford Bell, Esq.
1868. Sir James Fergusson, Bart.
1869. Sir Thos. E. Colebrooke, Bart., M.P.
1872. Archd. Orr Ewing, Esq., M.P.
1876. Alexander B. M'Grigor, LL.D.
1879. James King, Esq.
1882. R. W. Cochran-Patrick, LL.D., M.P.
1885. Alexander Crum, Esq., M.P.
1888. Robert Berry, LL.D.
1896. W. P. Dickson, D.D., LL.D.
1901. THE RIGHT HON. LORD KELVIN, G.C.V.O.

PRINCIPAL.

The office of Principal or Principal Regent of the College was almost coeval with the foundation of the University, and was regulated anew by James VI., in 1577. It is in the appointment of the Crown. The Principal is President of the Senatus Academicus; and is also, *ex officio*, a member of the University Court.

Principals from the year 1574.

1574. Andrew Melville.
1580. Thomas Smeaton.
1586. Patrick Sharpe.
1615. Robert Boyd.
1622. John Cameron, D.D.
1626. John Strang, D.D.
1650. Robert Ramsay.
1653. Patrick Gillespie.
1661. Robert Baillie, D.D.
1662. Edward Wright.
1684. James Fall.
1690. William Dunlop.
1701. John Stirling.
1728. Neil Campbell.
1761. Wm. Leechman, D.D.
1786. Archd. Davidson, D.D.
1803. William Taylor, D.D.
1823. Duncan M'Farlan, D.D.
1858. Thomas Barclay, D.D.
1873. John Caird, D.D.
1898. ROBERT HERBERT STORY, D.D., LL.D.

UNIVERSITY COURT.

The University Court consists of (*a*) the Rector, (*b*) the Principal, (*c*) the Lord Provost of Glasgow for the time being, (*d*) an Assessor nominated by the Chancellor, (*e*) an Assessor nominated by the Rector, (*f*) an Assessor nominated by the Lord Provost, Magistrates, and Town Council of Glasgow, (*g*) four Assessors elected by the General Council, (*h*) four Assessors elected by the Senatus Academicus. There is a further provision in the Act of 1889 for the representation of affiliated Colleges.

Assessors since the University Court was constituted.

CHANCELLOR.

1859. John Robertson, D.D., Glasgow.
1865. A. Sym, D.D., New Kilpatrick.
1870. James Pearson, D.D., Strathblane.
1874. Robert Jamieson, D.D., Glasgow.
1878. J. A. Campbell, LL.D., Stracathro.
1887. SIR JAMES KING, BART., LL.D.

RECTOR.

1860. Thomas Buchanan, Esq.
1863. Walter Buchanan, Esq., M.P.
1866. Archibald Orr Ewing, Esq.
1869. James A. Campbell, LL.D.
1878. Alexander Crum, Esq.
1880. Charles Cameron, M.D., LL.D., M.P.
1884. A. B. M'Grigor, LL.D.
1887. James Grahame, Esq.
1890. Lord Blythswood, LL.D.
1893. Matthew P. Fraser, LL.B.
1896. David Murray, LL.D.
1899. Alexander Ure, LL.B., M.P., Q.C.
1902. ALLAN F. BAIRD, Esq.

LORD PROVOST, MAGISTRATES, AND TOWN COUNCIL OF GLASGOW.

1889. James Colquhoun, LL.D.
1899. ROBERT M. MITCHELL, ESQ.

GENERAL COUNCIL.

1859. Andrew Bannatyne, LL.D.
1864. Lord Kinloch.
1867. Anderson Kirkwood, LL.D.
1887. R. W. Cochran-Patrick, LL.D.
1889. David Hannay, Esq.
1889. Hector C. Cameron, M.D.
1889. Sir John Neilson Cuthbertson.
1891. Rev. J. W. King, M.A., D.D.
1891. D. C. M'Vail, M.B.
1893. Hector C. Cameron, M.D.
1893. Sir John Neilson Cuthbertson.
1895. Rev. J. W. King, D.D.
1895. D. C. M'Vail, M.B.
1897. Hector C. Cameron, M.D.
1897. Sir John Neilson Cuthbertson, LL.D.
1899. D. C. M'VAIL, M.B.

1899.	Sir James Bell, Bart.
1900.	William Robertson Copland, Esq.
1901.	Sir John Neilson Cuthbertson, LL.D.
1901.	William Robertson Copland, Esq.

SENATUS ACADEMICUS.

15th Nov., 1859.	Professor W. Ramsay, M.A.
11th Dec., 1863.	Professor R. Buchanan, LL.D.
12th Dec., 1867.	Professor Allen Thomson, M.D.
11th Jan., 1872.	Professor Sir W. Thomson.
13th Jan., 1876.	Professor Cowan, M.D.
29th Jan., 1880.	Professor Berry, M.A., LL.D.
31st Jan., 1884.	Professor Dickson, D.D., LL.D
9th Feb., 1888.	Professor G. G. Ramsay, LL.D.
28th Nov., 1889.	Professor Leishman, M.D.
28th Nov., 1889.	Sheriff Berry, LL.D.
28th Nov., 1889.	Professor Stewart, D.D.
28th Nov., 1890.	Professor Ramsay, LL.D.
30th Nov., 1891.	Professor Leishman, M.D.
28th Nov., 1892.	Sheriff Berry, LL.D.
28th Nov., 1893.	Professor Stewart, D.D.
30th Nov., 1893.	Professor Gairdner, M.D., LL.D.
28th Nov., 1894.	Professor Jack, LL.D.
30th Nov., 1895.	Sir W. T. Gairdner, K.C.B., M.D., LL.D.
28th Nov., 1896.	Sheriff Berry, LL.D.
28th Nov., 1897.	Professor Stewart, D.D.
28th Nov., 1898.	Professor Adamson, LL.D.
30th Nov., 1899.	Professor Young, M.D.
28th Nov., 1900.	Professor Moir, LL.D.
28th Nov., 1901.	Professor Stewart, D.D.
6th Mar., 1902.	Professor Raleigh, M.A.
28th Nov., 1902.	Professor Raleigh, M.A.
15th Jan., 1903.	Professor Muir, M.A., M.D.

The Rector's Assessor continues in office three years, and the other Assessors four years.

Under the Universities Act, 1858, the Court has power:

1. To review all decisions of the Senate, and to be a Court of Appeal from the Senatus, except as otherwise provided in the Universities Act.

2. To effect improvements in the internal arrangements of the University, after due communication with the Senate, and with the sanction of the Chancellor: provided that all such proposed improvements be submitted to the General Council for consideration.

3. To require due attention on the part of the Professors to the Regulations as to the mode of teaching and other duties imposed on the Professors.

4. To fix and regulate, from time to time, the fees in the several Classes.

5. Upon sufficient cause shown, and after due investigation, to censure any member of Senate, or to suspend him from office, and from the emoluments thereof, in whole or in part, for any period not exceeding one year, or to

equire him to retire on a retiring allowance, or to deprive him of office; and during the suspension of any Professor, to make provision for the teaching of his class: provided always, that no such sentence of censure, deprivation, etc. shall have effect until approved by His Majesty in Council.

By Section 19 any of the Rules and Ordinances enacted by the Universities Commissioners under the Act, may be altered or revoked by the University Court of the University to which they are applicable, but only with the written consent of the Chancellor, and with the approval of His Majesty in Council.

By the Universities (Scotland) Act, 1889, the University Court is a body corporate with perpetual succession and a common seal; and all the property belonging to the University at the passing of the Act is now vested in that body.

By the same Act, the University Court, in addition to the powers conferred upon it by the Act of 1858, has power:

1. To administer the whole revenue and property of the University, ncluding share of annual Government Grant, and bursary and other mortifications.

2. To review any decision of the Senate, appealed against by a member of Senate or other member of the University interested,[1] and to receive representations and reports from the Senate and the General Council.

3. To review on representation by any member of the University Court or by any member of Senate, any decision of the Senate in the exercise of its powers of regulating and superintending the teaching and discipline of the University; but decisions in matters of discipline can be reviewed only on appeal by a member of Senate or by a member of the University directly affected.

4. To appoint professors to chairs in University patronage; to appoint examiners and lecturers; and to recognise for graduation purposes the teaching of any college or individual teacher, under any regulations laid down by the Commissioners, which regulations, after the expiration of the powers of the Commissioners, may from time to time be modified or altered by the Universities Committee.

5. To define on application by any member of the Senate the nature and imits of a professor's duties under his commission, subject to appeal to the Universities Committee.[2]

6. To take proceedings against a principal or professor, University lecturer, assistant, recognised teacher or examiner, or any other person employed in teaching or examining.

7. To appoint from persons not being members of Senate one third of the members of any standing committee or committees charged, by ordinance of the Commissioners, with superintendence of University libraries or museums, and to review any decision of the Senate regarding the recommendations of such committee or committees.

8. To appoint committees of its own number, consisting of not less than five members, to report on any business entrusted to them or to carry out special nstructions.

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[1] An appeal against any decision of the Senate must be lodged with the Secretary of the University Court within fourteen days from the date of the issue of such decision. See Ordinance No. 5.

[2] Ordinance No. 144, which was issued on 29th March, 1895, and came into force immediately after the expiration of the powers of the Commissioners (1889), empowers the University Court at any time to revise and adjust the terms of the commission to be issued at the next vacancy of any chair, with regard to the number of lectures and the period of instruction.

9. To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.

10. After the expiration of the powers of the Commission to found new professorships with the approval of the Universities Committee.[1] After such expiration no new professorship shall be founded otherwise.

By Section 21 of the Act of 1889 the University Court has power to make new ordinances, with the approval of His Majesty in Council:

1. With respect to the appropriation of the sum allotted to the University by the Commissioners out of the annual grant.

2. Altering or revoking any of the ordinances affecting the University which have been or may be framed and passed under the Act of 1858 or the Act of 1889, and making new ordinances: provided that such ordinances, before being submitted to His Majesty for approval, have been communicated by the University Court to the Senate, the General Council, and the University Courts of the other Universities, and have been laid for twelve weeks before both Houses of Parliament.

The Court is entrusted with the patronage of several of the Professorships, appoints the additional Examiners for Degrees, and is a court of final appeal in any dispute which may arise in making up the Register of the General Council. Seven Members of the Court constitute a quorum. The Rector is President—in his absence, the Principal.

SENATUS ACADEMICUS.

The Senatus Academicus consists of the Principal and the whole of the Professors, and is entrusted with the regulation and superintendence of the teaching and discipline of the University. It appoints two-thirds of the members of any standing committee or committees charged by ordinance of the Commissioners with the immediate superintendence of University libraries or museums. It receives in the first instance all reports by such committee or committees, and, subject to the review of the University Court, it may confirm, modify, or reject the recommendations in such reports. The Senate continues to possess and exercise the powers possessed by it before the passing of the Act of 1889 so far as they are not modified or altered by that Act or by the Act of 1858. The Principal, as President, has a deliberative and a casting vote. One third of the Senate constitute a quorum.

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[1] Ordinance No. 144 enjoins the University Court before proceeding to the foundation of any new Professorship, to ascertain that there are sufficient means for its endowment, and also to take into consideration the contingent claim which the Professor may have to a pension.

FACULTIES.

The Universities Commissioners, by Ordinance No. 31, dated 5th June, 1893, settled the constitution of the several Faculties in this University, as follows :—I. The Faculty of Arts consists of the Professors of the following subjects, viz., English Language and Literature, Humanity, Greek, Hebrew and Semitic Languages, Mathematics, Natural Philosophy, Logic and Rhetoric, Moral Philosophy, History, Political Economy.[1] II. The Faculty of Science consists of the Professors of the following subjects, viz., Mathematics, Natural Philosophy, Astronomy, Chemistry, Natural History, Botany, Anatomy, Physiology, Civil Engineering and Mechanics, Naval Architecture. III. The Faculty of Medicine consists of the Professors of the following subjects, viz., Chemistry, Natural History, Botany, Anatomy, Physiology, Pathology, Materia Medica, Medicine, Surgery, Midwifery, Forensic Medicine, Clinical Medicine, Clinical Surgery. IV. The Faculty of Law consists of the Professors of the following subjects, viz., Law, Forensic Medicine, Conveyancing, Political Economy.[1] V. The Faculty of Divinity consists of the Professors of the following subjects, viz., Divinity, Divinity and Biblical Criticism, Ecclesiastical History, Hebrew and Semitic Languages. The University Court has power to transfer Chairs from one Faculty to another, and in the event of the foundation of new Chairs, to determine to which Faculty or Faculties such Chairs shall belong.

The Professors constituting each Faculty annually elect one of their number to be Dean of the Faculty.

LECTURERS.

By Ordinance No. 17[2] of the Universities Commission (1889), the University Court is empowered to appoint, after consultation with the Senatus, Lecturers, whose teaching shall (unless otherwise determined by the University Court) qualify for graduation. They are appointed for a period not exceeding five years, but may be re-appointed. University Assistants or Demonstrators are eligible for appointment as Lecturers and *vice versa* ; and both offices may be held at the same time by the same person.

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[1] See Ordinance No. 149, Section i.

[2] This ordinance is printed at length in the University Calendar for 1893-94, at pp. 504. 505.

Ordinance No. 65 provides that the classes of University Lecturers shall be conducted at the seat of the University, *i.e.* in the city of Glasgow and the immediate neighbourhood thereof, that no classes conducted by Lecturers elsewhere shall qualify for graduation in any Faculty, and that University Lecturers shall be in all respects subject to the discipline of the Senatus Academicus and of the University Court.

BOARDS OF STUDIES.

By Ordinance No. 11 of the Universities Commission (1889), it is provided that the Senate shall institute Boards of Studies corresponding as nearly as may be to the departments of study for graduation in Arts. Each Board of Studies consists of the Principal, the Dean of the Faculty of Arts, and such other members of the Senate and Lecturers in the University as the Senate may from time to time select, a member of the Board being appointed Convener by the Senate. The functions of these Boards are defined in Ordinance No. 11, sections xviii. and xix.

Provision is made in Ordinance No. 42 for the institution of one or more Boards of Studies in each of the Faculties of Medicine and Science. In Medicine the constituent members of the Board or Boards are Professors in the Faculty of Medicine, together with such Professors in other Faculties whose subjects qualify for graduation in Medicine, and such Lecturers in the University as the Senate may from time to time select. The Board or Boards of Studies in Science are similarly constituted *mutatis mutandis.* The Dean of the Faculty of Medicine is Convener of each Board of Studies in Medicine; the Senate appoints the Convener of each Board of Studies in Science.

UNIVERSITY ASSISTANTS OR DEMONSTRATORS.

By Ordinance No. 17[1] of the Universities Commission (1889), the University Court is empowered to determine, after consultation with the Senatus, the number and grade of the Assistants, if any, to be assigned to each Professor. The appointments are made by the University Court on the recommendation of the Professors. The duties of each Assistant are defined by the Professor, with the approval of the Senate. The Assistants are recognized as Officers of the University, and are styled University Assistants or Demonstrators, as the University Court may determine.

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[1] See second note on page 43.

The Arnott and Thomson Demonstratorship, founded in 1875, is attached to the Chair of Natural Philosophy; the Muirhead Demonstratorship, founded in 1877, to the Chair of Physiology; and the Baxter Demonstratorship in Geology, founded in 1889, to the Chair of Natural History.

There is also an Assistantship to the Professor of Engineering, which was founded in 1876 by the bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow, and designated, in memory of her father, the Young Assistantship. The appointment is made by the University Court in conjunction with the Professor of Engineering.

EXAMINERS FOR DEGREES.

By Ordinance No. 13, Sections xiv.—xvi., of the Universities Commission (1889), the Examiners for graduation in Arts, Science, and Medicine respectively are the Professors whose subjects qualify for graduation, together with such Lecturers in the University and such additional Examiners, appointed by the University Court, as the Court may deem necessary. In the case of Medicine, the Court is required to make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

By Ordinances No. 39, Section vii., and No. 40, Section vii., of the Universities Commission (1889), the Examiners for graduation in Law are the Professors and Lecturers whose subjects qualify for graduation, and additional Examiners appointed by the University Court.

By Ordinance No. 63, Section ii., of the Universities Commission (1889), the Examiners for graduation in Divinity are the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court.

GENERAL COUNCIL.

[*For names, etc., of Members, see Appendix.*]

The General Council as constituted by the Scottish Universities Act, 1858 (21 and 22 Vict., chap. 83), by the Representation of the People (Scotland) Act, 1868 (31 and 32 Vict., chap. 84), and by the Universities Elections Amendment (Scotland) Act, 1881 (44 and 45 Vict., chap. 40), consists of the following *ex officio* Members, viz., the Chancellor, the Members of the University Court from and after their first election, and the Professors, and also of the following persons after registration, viz., all Masters of Arts of the University, and all persons on whom the University has, after Examination, conferred the Degree of Doctor of Medicine, or Doctor of Science, or Bachelor of Divinity, or Bachelor of Laws, or Bachelor of Medicine, or Bachelor of Science, or any other Degree instituted since 13th July, 1868; and also all persons who, previous to the 2nd August, 1861, had, as matriculated students, given regular attendance on the course of study in this University for four complete sessions, or such regular attendance for three complete sessions in this University, and regular attendance for one such complete session in any other Scottish University, the attendance for at least two of such sessions having been on the course of study in the Faculty of Arts.

Members of the Council must have their names enrolled in a book kept for the purpose by the Registrar. The Register of the Council is made up annually in the month of December, for the year following, and includes the names of all members entered on the Registration Book on or before the 30th day of November in each year. The Registration Fee, which is a payment for life, is 20s.

By section 16 of the Act 44 and 45 Vict., chap. 40, it is enacted that no person shall be allowed, after examination, to graduate at any of the Universities of Scotland until he shall have paid the Registration Fee; and it is further enacted that every person who has hitherto been, or who shall in the future become, *ex officio*, a member of the General Council of any of the Universities shall, on payment of the Registration Fee, be put and continued on the Register of Members of General Council of such University during his life, and shall be entitled to all the privileges of a Member of Council. The Act also provides that no person, subject to any legal incapacity, shall be entitled to vote at any parliamentary election, or exercise any other privilege as a member of the General Council.

The corrupt payment of any Registration Fee is punishable as bribery.

The Council meets twice every year—viz., on the last Wednesday of October, and the first Wednesday of April. In addition to these statutory meetings the Council may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint committees to investigate into and report upon any matter remitted to them, or to carry out instructions given to them by the Council. The quorum of the General Council has been fixed by the Universities Commissioners at ten for every complete thousand or fraction of a thousand on the Register, so that for the present year seventy members are requisite to constitute a quorum, there being 6176 names on the Register, but this provision does not apply to the statutory half-yearly meetings. It is competent to the Council to take into consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time to the University Court, who shall return to the Council their deliverances thereon. The annual reports as to the statistics of attendance and as to the finances of the University, made by the University Court to the Secretary for Scotland, are to be laid by him before the General Council. To it are also to be communicated all new ordinances, or changes of existing ordinances, which may be proposed by the University Court.

The Chancellor and four of the Assessors in the University Court are elected by the Council. The manner in which these officers are elected is regulated by Ordinance No. 9 of the Universities Commission (1889). The President of the Council is the Chancellor; whom failing, the Rector; whom failing, the Principal; whom failing, the Chancellor's Assessor; whom failing, the Rector's Assessor. In the absence of all these officials, a Chairman shall be elected by the meeting; but in the election of Assessors the members of Senate may not take part.

The General Councils of the Universities of Glasgow and Aberdeen jointly return a representative to Parliament. The Vice-Chancellor of Glasgow University is the returning officer.

Members of Parliament for the Universities of Glasgow and Aberdeen.

1868. Right Hon. James Moncrieff, LL.D., Lord Advocate.
1869. Right Hon. Edward S. Gordon, LL.D., Dean of the Faculty of Advocates.
1876. Right Hon. William Watson, LL.D., Lord Advocate.
1880. Right Hon. JAMES ALEXANDER CAMPBELL, LL.D.

STUDENTS' REPRESENTATIVE COUNCIL.

The constitution and functions of the Students' Representative Council are regulated by Ordinance No. 60, the provisions of which are as follows :—

I. The Students' Representative Council in each University shall submit to the University Court for approval the regulations under which it has been formed or now exists, and these regulations as approved, or with such alterations as may from time to time be approved by the University Court, shall form the constitution of the Students' Representative Council, and shall, subject to the provisions of this Ordinance, determine the functions thereof, and the mode of election thereto.

II. After the University Court has approved of the constitution of a Students' Representative Council in any University, alterations in the said constitution shall be of no effect unless and until they shall receive the approval of the University Court.

III. (1) The Students' Representative Council shall be entitled to petition the Senatus Academicus with regard to any matter affecting the teaching and discipline of the University, and the Senatus Academicus shall dispose of the matter of the petition, or shall, if so prayed, forward any such petition to the University Court, with such observations as it may think fit to make thereon.

(2) The Students' Representative Council shall be entitled to petition the University Court with regard to any matter affecting the students other than those falling under the immediately preceding sub-section.

(3) Nothing contained in this section shall be held to prejudice any right of appeal which may be competent under section 6, sub-section 2, of the Universities Act, 1889, nor the powers and jurisdiction of the Senatus Academicus with regard to the teaching and discipline of the University.

The Council at present consists of representatives (both men and women) from the different Faculties in the University, and its aims are (1) to represent the Students in matters affecting their interests; (2) to afford a recognized means of communication between the Students and the University authorities; (3) to promote social and academic unity among the Students. A Union Committee appointed by the Council completed in Session 1889-90 the arrangements for opening the "Glasgow University Union." The Council has various Sub-Committees—an Inter-Universities Committee, a Magazine Committee, which conducts during the winter session the "Glasgow University Magazine" (published weekly), an Amusements Committee, a Lodgings Committee, and a Book Exchange Committee.

Presidents of the Students' Representative Council.

1885-86. R. M. Wenley, M.A.
1886-87. Gavin Lambie, M.A.
1887-88. C. E. Robertson, M.B., C.M.
1888-89. John H. Harley, M.A.
1889-90. Robert Bell, M.B., C.M.
1890-91. William Newlands.
1891-92. John White, M.A.
1892-93. R. S. Horne, M.A.
1893-94. John H. Pagan, B.D.
1894-95. W. M. R. Pringle, M.A.
1895-96. John S. Thomson, M.A.
1896-97. Hyam Goodman, M.A.
1897-98. Arth. S. Middleton, M.A.
1898-99. James M. Black, M.A.
1899-1900. Ivy M'Kenzie, M.A., B.Sc.
1900-1901. John Muir, B.Sc.
1901-2. E. R. Mitchell, M.A.
1902-3. D. A. Dick.

STUDENTS.

Number of Students in the several Faculties, Session 1902-1903:—

MEN.		
In Arts (including Summer Matriculation of 1902, 13),	684	
Science (including Summer Matriculation of 1902, 6),	200	
Theology,	53	
Medicine (including Summer Matriculation of 1902, 83),	652	
Law,	190	
Arts and Medicine,	2	
Arts and Science,	1	
Science and Medicine,	1	
Arts and Law,	2	
Science and Law,	1	
Single class enrolment,	3	
		1797
WOMEN.		
In Arts (including Summer Matriculation of 1902, 1),	272	
Science,	8	
Medicine (including Summer Matriculation of 1902, 7),	60	
Arts and Medicine,	2	
Single class enrolment,	2	
		344
Total,		2141

Ordinance No. 50 of the Universities Commission (1889) requires that each student shall pay a matriculation fee of One Guinea, at the commencement of each winter session, for the whole academical year then next ensuing; and any student desirous of attending a class or classes during a summer session, without having matriculated at the commencement of the immediately preceding winter session, shall in respect of such summer session pay a matriculation fee of half a guinea. Ordinance No. 147 contains the following regulation with regard to matriculated students:—No person shall be deemed to be a matriculated student in any University or shall enjoy any of the privileges of a matriculated student unless, in addition to paying the matriculation fee, he is enrolled as a student in attendance in one or more classes in the University, and has paid the fees entitling him to such attendance: provided that nothing herein contained shall affect the right of the University Court to exact a fee in lieu of and not exceeding the matriculation fee from any candidate for any examination or for graduation, not being at the time a matriculated student, in addition to the fee payable for such examination or graduation. The University Court is empowered in special circumstances to permit persons who have not matriculated to attend any single class in any Faculty, on payment of an Entrance Fee of Five Shillings in addition to the authorized class fee, subject to the following provisions, viz.:—(1) That attendance on any class without payment of the matriculation fee shall not qualify for graduation in any Faculty, (2) that persons who have not paid the matriculation fee shall not be entitled to a certificate of attendance on any class, and (3) that payment of such entrance fee shall not confer any University privilege other than the right of attendance on such class. Men students matriculate at the University, and women students at Queen Margaret College, on and after 14th October. Matriculation closes on 6th November.

Students are entitled, after matriculation, to the privilege of admission to the University Library, and, under certain conditions, to the Hunterian Museum; they are also entitled to vote for the Lord Rector. They are classified as students in Arts, Science, Medicine, Law, and Divinity, according to the nature of their studies; and they are likewise, for academical purposes, divided into Togati and Non-Togati—the students of the Humanity, Greek, Logic, Ethics, and Natural Philosophy classes being Togati or gown students, from being required to wear the ancient academical robe—a scarlet cloak.

Under the Non-Togati, or ungowned students, are comprehended all those who, having finished their course of instruction in Arts, are prosecuting their studies in the other Faculties, with a more immediate view to their intended professions; and it comprises also other persons resident in the city or its vicinity, who, though engaged in other avocations, are disposed to cultivate literary pursuits, or to extend their acquaintance with some favourite branches of learning or science, by attending the lectures given at the University.

A distinction is also made between Public and Private students. The former are required to undergo examinations, and to read or perform exercises on the subjects treated of in the lectures,—and they only are allowed to reckon their sessions of study as a qualification for proceeding to degrees in the several Faculties.

By Ordinance No. 18[1] of the Universities Commission (1889) the University Court was empowered to admit women to graduation, and to provide for their instruction, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. Under this ordinance women were for the first time admitted as matriculated students of this University in Session 1892-93.

Medical students have access, for the usual attendance in the wards and on the Clinical Lectures, to the Royal Infirmary situated in the Eastern part of the city, and to the Western Infirmary in the immediate vicinity of the University. In the Royal Infirmary certain wards are appropriated to the clinical instruction of women.

UNIVERSITY CHAPEL.

The University Chapel is under the management of a Committee of Senate, of which the Principal is Convener.

Public Worship is celebrated on certain Sundays during the Winter Session at 2.30 P.M., in the Bute Hall. The services are conducted by graduates of this University and other clergymen of various denominations.

GYMNASIUM.

This building was erected by public subscription, and fitted according to the most improved models, under the superintendence of the late Mr. Maclaren of Oxford, at a total cost of £2600, and was opened for the first time in January, 1872.

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[1] This ordinance is given in full in the *University Calendar* for 1892-93, pp. 504-506

Gymnastic, Physical Culture, Boxing, and Fencing classes are held during the session. Mr. James Hughes, who was last year appointed Instructor in place of Mr. Benson, will carry on the classes as usual next winter session. They meet at various hours in the forenoon and afternoon, each class meeting three days a week. Students may join any class which is convenient for them. Further particulars will be announced at the beginning of the session.

Gentlemen not connected with the University are admitted to the use of the Gymnasium, and a special evening class is formed for their benefit, which meets on Mondays and Thursdays from 8 P.M. till 10 P.M.; also a Boxing class if it is desired.

Fees.—Gymnastics. *For all Students:* One month, 5s.; Two months, 8s. 6d.; Three months, 12s.; Six months, 20s. *For Non-Students:* the Quarter (*i.e.* twice a-week for three months), 15s.; whole season (seven months), 35s. Fencing and Boxing: 10s. for a course of twelve lessons. Special arrangements are made for the summer session.

The Oxford Silver Medal, presented annually by the late Mr. Maclaren, for competition among the students, is continued by the Gymnasium, and, at the competition in March, 1903, was gained by James Miller. The Bronze Medal for competition among the non-students is also continued, and in 1903 was gained by J. R. Aitken, LL.B.

Badges presented by the Ladies of the University are awarded to the second in each of the annual competitions for the Oxford Silver and Bronze Medals; in 1903 they were gained by A. C. Amy and W. Church respectively.

In 1899 Professor Ramsay presented to the Gymnasium a Silver Challenge Cup for annual competition among teams representing the four Nations into which students are divided in voting at the Rectorial elections. In the competition held in March, 1903, the winning team was Glottiana, composed of the following members: A. C. Amy, J. A. Gilchrist, J. Miller, and J. A. M'Connell.

Gymnastic classes for members of Queen Margaret College are also arranged.

The Gymnasium is managed by a joint-committee of professors and students.

Hon. President, Professor G. G. Ramsay, LL.D.

Hon. Treasurer, Alan E. Clapperton, B.L., 91 West Regent Street, Glasgow.

Hon. Secretary, P. L. O. Guy, Auldhouse, Pollokshaws.

ARMY COMMISSIONS FOR UNIVERSITY CANDIDATES.

1. Graduates in Arts or in Science of this University, and students who have passed all the examinations for the Degree of M.A. or for the Degree of B.Sc., are eligible for Commissions in the Cavalry and Infantry of the line. The limits of age are from 17 to 23.

2. Students of this University who have passed "the Examination of Candidates for the Army," are also eligible for Commissions. They are required to attend one class in each of the following three departments, viz.: (*a*) Latin or Greek; (*b*) Logic or Moral Philosophy or English Literature; (*c*) Mathematics or Natural Philosophy,—and to pass the examination on the M.A. standard in the three subjects in which they have attended classes. The limits of age in this case are from 17 to 22.

Candidates for Certificates of having passed the Examination for the Army must enter their names and pay the Fees at the Matriculation Office at the same times as Candidates for the M.A. Examinations. The Fee for the Examination is Two Guineas.

TRAINING FOR THE HOME CIVIL SERVICE, THE INDIAN CIVIL SERVICE, AND EASTERN CADETSHIPS.

The Senate desire to make known the facilities offered to the students of the University who wish to prepare for the open competition for these appointments while carrying on their studies for the M.A. or B.Sc. degree. The range of subjects and the scale of marks are well adapted to the course of study pursued by the student for the Honours degree in Arts. Intending candidates should in all cases read for Honours—in at least one group. The age limits allow ample time for a second Honours school—if thought advisable; and the combination of Classical Honours with those of any of the other departments—such as Mathematics and Natural Philosophy, History, English, Philosophy, Economic Science, or Modern Languages—would be extremely valuable for the purpose. Students of Mathematics may be more fitted to take up the scientific subjects—Physics, Chemistry, Botany, Zoology, Geology, etc. Suitable preparation for these will be found in the courses for the degree of B.Sc. in Pure Science, and it is believed that the regulations now in force will make these subjects specially valuable to students of this University. Some of the courses for the degrees in Law are also recommended to candidates.

The following table shows the subjects of examination, with the marks assigned to each, and also the classes in the University which are suitable in each case.

N.B.—*The regulations are liable to alteration from year to year.*

Subject of Examination.	*Marks.*	*Classes in the University.*
Latin Language and Literature,	750	Latin: Honours.
Roman History,	400	Latin: Honours: Roman Law.
Greek Language and Literature,	750	Greek: Honours.
Greek History,	400	
Mathematics (Pure and Applied),	900	Mathematics: Intermediate and Advanced Honours. Natural Philosophy: Ordinary and Honours (both sections).
Advanced Mathematics (Pure and Applied),	900	
Physics	600[1]	Natural Philosophy: Ordinary: and Physical Laboratory.
Chemistry,	600[1]	Chemistry and Chemical Laboratory.
Geology,	600[1]	Geology.
Botany,	600[1]	Botany and Botanical Laboratory.
Zoology,	600[1]	Zoology and Zoological Laboratory.
Animal Physiology,	600[1]	Physiology and Physiological Laboratory.
English Composition,	500	English: Ordinary.
English Language and Literature,	500	English: Ordinary and Honours.
English History,	500	History: Ordinary. Constitutional Law and History.
General Modern History (Special Period),	500	History: Honours.
Logic and Mental Philosophy,	400	Logic.
Moral Philosophy,	400	Moral Philosophy.
Political Economy and Economic History,	500	Political Economy.
Political Science,	500[2]	
English Law,	500	
Roman Law,	500	Roman Law.
French Language and Literature,	500	French.
German ,, ,, ,,	500	German.
Sanskrit ,, ,, ,,	500	
Arabic ,, ,, ,,	500	Arabic.

Candidates may profess any or all of these branches of knowledge, but not more than three of the Natural Science subjects may be taken by the same candidate. (See footnote on p. 54.) No subjects are obligatory. The marks assigned in each branch will be subject to such deduction as the Civil Service Commissioners may deem necessary in order to secure that no credit be allowed for merely superficial knowledge. No deduction will be made in the subjects of English Composition and Mathematics.

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[1] Any number not exceeding three to be taken.

[2] Preparation for this subject may be obtained in the Political Philosophy Class, in the Moral Philosophy (Honours) Class, in the Political Economy (Honours) Class, and in certain of the Law Classes.

Age Limits.

Home Civil Service. Clerkships: Class I.

Candidates must have attained the age of 22, and must not have attained the age of 24, on the first day of the examination.

Indian Civil Service.

Candidates must have attained the age of 21, and must not have attained the age of 23, on the first day of the year in which the examination is held.

Eastern Cadetships.

Candidates must have attained the age of 21, and must not have attained the age of 24, on the first of August in the year in which the examination is held.

N.B.—Students who propose to enter for this examination are strongly advised to determine at the beginning of their course what line of study they can best follow, and to acquaint their Professors or Lecturers with their plans. Full particulars with regard to the competition will be found in the publications of the Civil Service Commission, which may be consulted in the University Reading-Room.

On this subject the Senate has appointed a Committee consisting of Professors Jack, Jones, Smart, Phillimore, Gray, Medley, Bower, Latta, Mr. J. M. Irvine, and Mr. J. W. Peck —Professor Jones, convener, and Mr. Peck, secretary. The members of this Committee will be glad to give any further information or advice.

APPOINTMENTS FOR STUDENTS AND GRADUATES.

On 29th January, 1903, the Senate appointed the Principal, Professors Ramsay, Stewart, Glaister, Muir, Gray, Medley, Raleigh, Latta, and Kerr, together with the Lecturer in French, M. Martin, a Committee for the purpose of collecting and communicating information regarding appointments suitable for students and graduates. Professor Latta is convener, and Mr. W. Innes Addison, secretary.

II.—TABLE OF UNIVERSITY FEES.

I.—MATRICULATION FEES.

At the commencement of each Academical Year, which extends from 1st October to 30th September, and includes both Winter and Summer Sessions, ...	£1	1	0
At the commencement of each Summer Session, if the Student has not matriculated for the Academical Year then current, ...	0	10	6

II.—ENTRANCE FEES.

On admission, in special circumstances, of persons who are not matriculated Students of the University to any single class in any Faculty, ...	0	5	0

N.B.—Attendance under this Regulation does not qualify for Graduation, and no Certificate for such attendance is given. The Entrance Fee confers no University privileges other than the right of attendance above mentioned.

III.—ENROLMENT FEES (extra-mural lectures).

At the commencement of each year of attendance on the lectures of Extra-Academical Teachers in Glasgow, whose Lectures are recognised for Graduation in Medicine or Science, ...	1	1	0

IV.—EXAMINATION FEES.

For Preliminary Examinations in Arts, Science, or Medicine—			
On each entry for Examination, ...	0	10	6
For Degree of Master of Arts (M.A.)—New Regulations—			
The Fee for this Degree is	5	5	0
Payable £1 1s. on entering for Examination in each subject till £5 5s. are paid.			
For Degree of Bachelor of Science (B.Sc.)—New Regulations—			
The Fee for this Degree is	5	5	0
Payable £1 1s. on entering for Examination in each subject till £5 5s. are paid.			
For Diploma in Education—			
On entering for Examination, ...	2	2	0
For Certificate in Engineering Science—			
On entering for last subject of Examination, ...	1	1	0
For Degree of Doctor of Letters (D.Litt.)—			
On lodging Thesis, ...	10	10	0
For Degree of Doctor of Philosophy (D.Phil.)—			
On lodging Thesis, ...	10	10	0
For Degree of Doctor of Science (D.Sc.)—			
On lodging Thesis, ...	10	10	0

For Degrees of Bachelor of Medicine (M.B.), and Bachelor of Surgery (Ch.B.)—			
On entering for First Professional Examination, ...	£6	6	0
,, Second ,, ,, ...	6	6	0
,, Third ,, ,, ...	5	5	0
,, Fourth ,, ,, ..	5	5	0
For Degree of Doctor of Medicine (M.D.)—Old Regulations—			
On lodging Thesis, ...	5	5	0
For Degree of Doctor of Medicine (M.D.)—New Regulations—			
On entering for Examination, ...	10	10	0
For Degree of Master of Surgery (Ch.M.)—			
On entering for Examination, ...	10	10	0
For Degree of Bachelor of Laws (LL.B.)—New Regulations—			
The Fee for this Degree is	6	6	0
Payable £1 1s. on entering for each subject till £6 6s. are paid.			
For Degree of Bachelor of Law (B.L.)—New Regulations—			
The Fee for this Degree is	5	5	0
Payable £1 1s. on entering for each subject till £5 5s. are paid.			
For Degree of Bachelor of Divinity (B.D.)—			
On entering for Examination in First Department,	2	12	6
,, ,, Second ,,	2	12	6
For Examination of Candidates for the Army—			
On entering for Examination,...	2	2	0

V.—Class Fees (*see* pages 58—63 and 146, 147).

VI.—Library Fees.

Each Member of the General Council, each year (commencing 14th October) in which he wishes use of Library, ...	0	10	6
Or,			
This may be compounded for by a single payment of ...	5	5	0
Every Matriculated Student enrolled in a Class, and every Extra-Mural Student, who wishes use of Library, a *deposit* of	1	0	0
Special Readers—each year in which the privilege is granted, ...	0	10	6

VII.—Registration Fee.

All Candidates proceeding to Graduation after Examination who are not already members of the General Council are required by the Act 44 and 45 Vict., Ch. 40, to pay the Registration Fee, with a view to their names being enrolled in the General Council. The Fee is	1	0	0

III.—SEPARATE FACULTIES AND CLASSES.

The University Classes will meet as follows, daily, unless otherwise specified :—

WINTER SESSION 1903-4.

I.—ARTS.

THURSDAY, 15TH OCTOBER, 1903.

Classes.	*Hours.*	*Class Fees.*	
Latin, Middle,	11 a.m.,	£3 3	PROF. RAMSAY.
——— *Senior,*	8 a.m. or 9 a.m. and 1 p.m.,	3 3	
——— *Private or Honours,*	1 p.m.,	3 3	
——— *Prose,*	1 p.m., Wed. or 11 a.m., Thurs.,	1 1	
Greek,	8 a.m.,	3 3	PROF. PHILLIMORE.
——— *Honours,*	12 noon,	3 3	
——— *Prose,*	12 noon, once weekly,	1 1	
English,	11 a.m.,	3 3	PROF. RALEIGH.
———*Second Session,*	Mond., Wed., and Frid.,	2 2	
———*Honours,*	12 noon,	3 3	
British History,	10 a.m.,	3 3	Mr. J. L. Morison.
French,	11 a.m.,	3 3	M. Charles Martin.
——— *Honours,*	12 noon, Tues., Fri., and alternate Wed.,	3 3	
German,	10 a.m.,	3 3	Mr. George P. Thistlethwaite.
——— *Honours,*	12.15 p.m. Mon., Thurs., and alternate Wed.,	3 3	
Italian,	3 p.m.,	3 3	Signor F. Agnoletti.
Hebrew, Junior,	10 a.m.,	3 3	PROF. ROBERTSON and MR. T. H. WEIR.
———*Senior,*	9 a.m.,	3 3	
Arabic or Syriac,	(see p. 135),	2 2	
Logic and Metaphysics,	9 a.m.	3 3	PROF. LATTA.
——— *Honours,*	1 p.m.,	3 3	
Moral Philosophy,	8 a.m.,	3 3	PROF. JONES.
——— *Honours,*	12 noon,	3 3	
Political Economy,	2 p.m.,	3 3	PROF. SMART.
———*Honours,*	3 p.m.,	3 3	
Education (*Theory, History, and Art of*),	4 p.m.,	3 3	Mr. John Clark.
Philosophy of Law (see p. 126),	4.30 p.m., Mon., Th.,	3 3	Mr. W. G. Miller.
Mathematics,	9 a.m., or 12 noon	3 3	PROF. JACK.
——— *Honours* (*Intermed.*),	10 a.m., or 11 a.m.,	3 3	
——— *Honours* (*Advanced*),	11 a.m., Mon., Wed., Fri.,	3 3	
Natural Philosophy,	9 a.m.,	4 4[1]	PROF. GRAY.
——— *Honours, Section A,*	1 p.m., Mon. ; and 12 noon, Wed., Fri.,	4 4[1,2]	
——— *Honours, Section B.*	12 noon, Monday, Tuesday, Thursday,	4 4[1,2]	
——— *Honours, Sections A. & B.,*		5 5[3]	
Physical Laboratory,	10 a.m. to 4 p.m.,	6 6	
——— (*Half Session*),		3 3	

[1] Fee for a Second or subsequent Session, £3 3s.

[2] Fee for either Honours Course along with or after Ordinary Class, £3 3s.

[3] Fee for both Sections along with or after the Ordinary Class, £4 4s.

Classes.	*Hours.*	*Class Fees.*	
Astronomy, First,	3 p.m., Mon., Wed., and Fri., (see p. 88),	£2 2	PROF. BECKER.
——— *Second,*	3 p.m., Tues., Th., and Fri., (see p. 88),	2 2	
——— *First and Second in same Session,*		4 4[1]	
Chemistry,	10 a.m.,	4 4[1]	PROF. FERGUSON.
Chemical Laboratory,	10 a.m. to 4 p.m.,	10 10	
——— (*Half Session*),		5 5	
Zoology (*Elementary*),	9 a.m.,	4 4[1]	PROF. KERR.
Zoological Laboratory (*Elementary*),	11 a.m. or 3 p.m.,	3 3	
Zoology, Advanced (Jan.),	9 a.m.,	2 2	
Botany, Advanced,	(see p. 98),	3 3[2]	PROF. BOWER.
Botanical Laboratory, Advanced (Jan.),	(see p. 98),	4 4[1]	
Botany (in Summer),			
History,	10 a.m.,	3 3	PROF. MEDLEY.
———*Honours,*	11 a.m., Mon., Wed., Fri.,	3 3	
Constitutional Law and History,	4.30 p.m.,	4 4[1]	Dr. W. S. M'Kechnie.
———*Honours,*	1 p.m., Mon., Wed., Fri.,	3 3	
Roman Law,	5.30 p.m.	4 4[1]	Mr. J. M. Irvine.
History of Civil Law (*Half Course*),	5.30 p.m. (see p. 125),	3 3	

II.—SCIENCE.

THURSDAY, 15TH OCTOBER, 1903.

Classes.	*Hours.*	*Class Fees.*	
Mathematics,	9 a.m. or 12 noon,	£3 3	PROF. JACK.
——— *Honours*(*Intermed.*),	10 a.m. or 11 a.m.,	3 3	
——— *Honours*(*Advanced*),	11 a.m., Mon., Wed., Fri.,	3 3	
Natural Philosophy,	9 a.m.,	4 4[1]	PROF. GRAY.
Higher Mathematical A.,	1 p.m., Mon.; 12 noon Wed., Fri.,	4 4[1 3]	
——— *B.,*	12 noon, Mon., Tu., Th.,	4 4[1 3]	
——— *A. and B.,*		5 5[4]	
Physical Laboratory,	10 a.m. to 4 p.m.,	6 6	
——— (*Half Session*)		3 3	
Electricity,	12 noon, Wed. and Fri.,	3 3	Dr. James Muir.
Astronomy, First,	3 p.m., Mon., Wed., and Fri. (see p. 88),	2 2	PROF. BECKER.
——— *Second,*	3 p.m., Tues., Th., and Fri. (see p. 88),	2 2	
——— *First and Second in same Session,*		4 4[1]	

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[1] Fee for a Second or subsequent Session, £3 3s.

[2] See third note on page 60.

[3] Fee for either Higher Course along with or after the Ordinary Class, £3 3s.

[4] Fee for both Sections along with or after the Ordinary Class, £4 4s.

Classes.	*Hours.*	*Class Fees.*	
Chemistry,	10 a.m.,	£4 4[1]	Prof. Ferguson.
Chemical Laboratory,	10 a.m. to 4 p.m.,	10 10	
——— (*Half Session*),		5 5	
Metallurgical Chemistry,		1 1	Dr. W. C. Anderson.
Organic Chemistry,		1 1	Mr. M. A. Parker.
Anatomy, Junior,	1 p.m.,	4 4[1]	Prof. Cleland and Demonstrators.
——— *Senior*,	11 a.m.,	4 4[1]	
Practical Anatomy,	9 a.m. to 4.45 p.m.,	3 3[2]	
Physiology,	12 noon,	4 4[1]	Prof. M'Kendrick and Muirhead Demonstrator.
Practical Physiology (in Summer).			
——— *Advanced*	(see p. 105),	4 4[1]	
Physiological Laboratory,	10 a.m. to 4 p.m.,	10 10	
——— (*Half Session*),		5 5	
Zoology, Elementary,	9 a.m.,	4 4[1]	Prof. Kerr.
Zoological Laboratory, Elementary,	11 a.m. or 3 p.m.,	3 3	
Zoology, Advanced (Jan.),	9 a.m.,	2 2	
Botany, Advanced,[3]	(see p. 98),	3 3	Prof. Bower.
Botanical Laboratory, Advanced (Jan.),	(see p. 98).	4 4[1,3]	
Geology and Mineralogy,	5.30 p.m.,	4 4[1]	—— ——
Engineering, Class I.,	9 a.m., Mon., Wed., Fri.,	2 2	Prof. Barr, Lecturers and Demonstrators.
——— *Tutorial*,	9 a.m., Tues., Thurs.,		
——— *II.*,	(not in 1903-4).		
——— *III.*,	9 a.m., Mon., Wed., Fri.,	2 2	
——— *IV.*,	10 a.m. daily, ex. Sat.,	4 4[1]	
Engineering Drawing, etc.,	9 a.m. to 5 p.m. daily, except Sat.,	4 4[1]	
Engineering Laboratory,	9 a.m. to 5 p.m.,	10 10	
——— (*Second Session*),		5 5	
Engineering Laboratory, Mechanical or Electrical,	9 a.m. to 5 p.m.,	3 3	
Electrical Engineering, Junior,	8 a.m. Mon., Wed., Fri.,	2 2	Dr. James B. Henderson.
——— *Senior*,	8 a.m. Tues., Thur., Sat.,	2 2	
Mining, Class I.,	4 p.m., Mon., Wed.,	2 2	Mr. Charles Latham.
——— *II.*,	4 p.m., Tues., Thurs.,	2 2	
——— *III.*,	5 p.m., Thurs.,	1 1	
——— (for Evening Classes, see page 95).			
Mine Management, Class I.,	7.30 p.m., Mon.,	1 1	
——— *II.*,	7.30 p.m., Wed.,	1 1	
Naval Architecture and Marine Engineering, Junior,	12 noon, Mon., Wed., and Fri.,	3 3	Prof. Biles.
——— *Senior*,	11 a.m., Mon., Tu., & Th.,	3 3	
——— *Practical, Junior*,	2 to 5 p.m., Tu., Wed., Th., and Fri.,	3 3	
——— *Senior*,	2 to 5 p.m., Tu., Wed., Th., and Fri.,	3 3	

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[1] Fee for a Second or subsequent Session, £3 3s.

[2] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

[3] Students who have attended Lectures or Laboratory Classes in Botany and paid fees amounting to at least £14 14s., in respect of such classes, may afterwards enrol in any Lecture or Laboratory Class in Botany for £1 1s.

III.—MEDICINE.

THURSDAY, 15TH OCTOBER, 1903.

Classes.	*Hours.*	*Class Fees.*		
Zoology, Elementary,	9 a.m.,	£4	4[1]	PROF. KERR.
Zoological Laboratory, Elementary,	11 a.m. or 3 p.m.,	3	3	
Chemistry,	10 a.m.,	4	4[1]	PROF. FERGUSON.
Chemical Laboratory,	10 a.m. to 4 p.m.,	10	10	
—— —— (*Half Session*),		5	5	
Anatomy, Junior,	1 p.m.,	4	4[1]	PROF. CLELAND and Demonstrators.
—— *Senior,*	11 a.m.,	4	4[1]	
Practical Anatomy,	9 a.m. to 4.45 p.m.,	3	3[2]	
Physiology,	12 noon,	4	4[1]	PROF. M'KENDRICK and Muirhead Demonstrator.
Physiological Laboratory,	10 a.m. to 4 p.m.,	10	10	
—— (*Half Session*),		5	5	
Materia Medica and Therap.,	1 p.m.,	4	4[1]	PROF. STOCKMAN.
Pathology, Systematic,	3 p.m.,	4	4[1]	PROF. MUIR.
—— *Demonstrations only,*		1	1	
Surgery,	12 noon,	4	4[1]	PROF. SIR WM. MACEWEN.
Midwifery,	2 p.m.,	4	4[1]	PROF. M. CAMERON.
Practice of Medicine,	11 a.m.,	4	4[1]	PROF. ANDERSON.
Clinical Medicine,	9 a.m.,	3	3	PROF. GEMMELL and PROF. ANDERSON.
Clinical Surgery,	9 a.m.,	3	3	PROF. SIR H. C. CAMERON and PROF. SIR WM. MACEWEN.
Public Health Laboratory,	(see p. 109),	12	12	PROFESSOR GLAISTER and Assistant.
—— (*Half Session*),		6	6	
Ear,	4 p.m., Mon. (see p. 116),	1	1	Dr. Thomas Barr.
Throat and Nose,	4 p.m., Th. (University), 4 p.m., Tues. or Fri. (Western Infirmary),	1	1	J. Walker Downie, M.B.

IV.—LAW.

THURSDAY, 15TH OCTOBER, 1903.

Classes.	*Hours.*	*Class Fees.*		
Scots Law,	8 a.m.,	£4	4[1]	PROF. MOODY STUART.
Civil Law,	5.30 p.m.,	4	4[1]	Mr. J. M. Irvine.
Conveyancing,	8 a.m.,	4	4[1]	PROF. MOIR.
Constitutional Law and History,	4.30 p.m.,	4	4[1]	Dr. W. S. M'Kechnie.
—— (*Half Course*),		3	3	
Mercantile Law,	5.30 p.m.,	4	4[1]	Mr. William Shaw.
—— (*Half Course*),		3	3	
Public International Law,	5.30 p.m., Mon., Th.,	3	3	Mr. W. G. Miller.
Jurisprudence, General or Comparative,	4.30 p.m., Mon., Th.,	3	3	
nternational Private Law (in Summer),				
Political Economy,	2 p.m.,	3	3	PROF. SMART.
Forensic Medicine,	9 a.m. (Jan.),	4	4[1]	PROF. GLAISTER.

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[1] Fee for a Second or subsequent Session £3 3s.

[2] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

V.—THEOLOGY.

THURSDAY, 15TH OCTOBER, 1903.

Classes.	Hours.	Class Fees.		
Divinity, Senior,	11 a.m.,	£3	3	PROF. HASTIE.
—— Junior,	12 noon,	3	3	
Hebrew, Junior,	10 a.m.,	3	3	PROF. ROBERTSON and Mr. T. H. Weir
——Senior,	9 a.m. daily, and 12 noon, Tu., Wed., Th.,	3	3	
Arabic or Syriac,	(see p. 135),	2	2[1]	
Ecclesiastical History, Junior,	11 a.m.,	3	3	PROF. COOPER.
—— Senior,	12 noon,	3	3	
Biblical Criticism,	10 a.m.,	3	3	PROF. STEWART.
New Testament Greek,	9 a.m., Mon., Wed., Fri.,	2	2	

SUMMER SESSION 1904.

I.—ARTS.

WEDNESDAY, 20TH APRIL, 1904.

Classes.	Hours.	Class Fees.		
Physical Laboratory,	10 a.m. to 4 p.m.,	£4	4	PROF. GRAY.
Chemical Laboratory,	10 a.m. to 4 p.m.,	5	5	PROF. FERGUSON.
Botany,	8 a.m. (see p. 98),	4	4[2]	PROF. BOWER.
Botanical Laboratory,	9 a.m. to 4 p.m.,	3	3[3]	
Latin,	11 a.m.,	2	2	Mr. D. A. Slater.
Greek,	10 a.m.,	2	2	Mr. W. Rennie.
Mathematics,	9 a.m.,	2	2	Mr. D. K. Picken. Mr. R. J. T. Bell.
Hebrew,	9 a.m.,	2	2	PROF. ROBERTSON and Mr. T. H. Weir.
Arabic,	(see p. 135),	2	2	Mr. T. H. Weir.
Political Philosophy,		2	2	Mr. R. A. Duff.
Economic Science,		1	11 6	PROF. SMART and Assistants.

II.—SCIENCE.

WEDNESDAY, 20TH APRIL, 1904.

Classes.	Hours.	Class Feess.		
Zoology, Advanced,	9 a.m.,	£3	3	PROF. KERR.
Botany,	8 a.m. (see p. 98),	4	4[2]	PROF. BOWER.
Botanical Laboratory,	9 a.m. to 4 p.m.,	3	3[3]	
Physical Laboratory,	10 a.m. to 4 p.m.,	4	4	PROF. GRAY.
Chemical Laboratory,	10 a.m. to 4 p.m.,	5	5	PROF. FERGUSON.
Chemistry, Higher,		4	4[2]	
Metallurgical Chemistry,		1	1	Dr. W. C. Anderson.
Organic Chemistry,		1	1	Mr. M. A. Parker.
Practical Anatomy,	8 a.m. to 3 p.m.,	2	2[4]	PROF. CLELAND and Demonstrators.
Practical Physiology,	12 noon,	3	3	PROF. M'KENDRICK and Muirhead Demonstrator.
Physiological Laboratory,	10 a.m. to 4 p.m.,	5	5	

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[1] For Students who are attending, or have attended, the Hebrew Class, the Fee is £1 1s.

[2] Fee for a second or subsequent session, £3 3s.

[3] See third note on page 60.

[4] Students who have taken two winters and two summers of Practical Anatomy, as well a the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s

III.—MEDICINE.

Wednesday, 20th April, 1904.

Classes.	*Hours.*	*Class Fees.*		
Physics,	11 a.m.,	£3	3	Mr. J. W. Peck.
Botany,	8 a.m. (see p. 98),	4	4[1]	Prof. Bower.
Botanical Laboratory,	9 a.m. to 4 p.m.,	3	3[2]	
Clinical Medicine,	9 a.m.,	2	2	Prof. Gemmell and Prof. Anderson.
Clinical Surgery,	9 a.m.,	2	2	Prof. Sir H. C. Cameron and Prof. Sir William Macewen.
Practical Chemistry,[3]	9 to 11 a.m.,	3	3	Prof. Ferguson.
Chemical Laboratory,	10 a.m. to 4 p.m.,	5	5	
Practical Anatomy,	8 a.m. to 3 p.m.,	2	2[4]	Prof. Cleland and Demonstrators.
Embryology,	11 a.m. (see p. 103),	2	2	Dr. J. F. Gemmill.
Embryological Laboratory,	9 a.m. to 4 p.m. (see p. 103)	3	3	
Practical Anatomy and Embryology, if taken together,		3	3	
Practical Pharmacy,	12 noon,	3	3	Prof. Stockman.
Practical Physiology,[5]	12 noon (see p. 105),	3	3	Prof. M'Kendrick and Muirhead Demonstrator.
Physiological Laboratory,	10 a.m. to 4 p.m.,	5	5	
Medical Jurisprudence and Public Health,	11 a.m.,	4	4[1]	Prof. Glaister.
Public Health Laboratory,	(see p. 109),	6	6	
Practical Pathology,[5]	3 p.m. (see p. 108),	3	3	Prof. Muir.
Operative Surgery,	12 noon, with practical work at other hours as may be arranged,	3	3	Prof. Sir Wm. Macewen.
Diseases of Women,	2 p.m., Tu., Th., Fri.,	2	2	Prof. M. Cameron.
Insanity,	12 noon, Wed. (University), 10 a.m. Sat. (Gartnavel),	2	2	Dr. Yellowlees.
Ear,	4 p.m., Mon. (see p. 116),	1	1	Dr. Thomas Barr.
Throat and Nose,	4 p.m., Th. (University), 4 p.m., Tues. or Friday. (Western Infirmary),	1	1	J. Walker Downie, M.B.

IV.—LAW.

Wednesday, 20th April, 1904.

Class.	*Hour.*	*Class Fee.*		
International Private Law,	5.30 p.m.,	£3	3	Mr. W. G. Miller.

[1] Fee for a second or subsequent session, £3 3s.

[2] See third note on page 60.

[3] Instead of this Practical Course in Summer, Medical Students may take a three months' course of Laboratory Instruction in Winter.

[4] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

[5] After first Lecture, the Class will meet in divisions.

In addition to the University Courses, the following Hospitals and Dispensaries afford ample means for Practical Instruction in the various departments of Medicine and Surgery :—

Western Infirmary.—This Hospital contains 416 beds for medical and surgical patients, including Wards for Skin Diseases, and one for diseases peculiar to females. *Physicians*—Prof. T. M'Call Anderson, M.D.; James Finlayson, M.D., LL.D.; Prof. Samson Gemmell, M.D.; Prof. Ralph Stockman, M.D. *Honorary Consulting Physicians*—Gavin P. Tennent, M.D.; Sir William T. Gairdner, K.C.B., M.D., LL.D., F.R.S. *Physicians for Diseases of Women*—W. L. Reid, M.D.; Professor Murdoch Cameron, M.D. *Assistant Physicians*—John Alexander, M.D.; William G. Dun, M.D.; R. S. Thomson, M.D.; R. B. Ness, M.B. *Surgeons*—Professor Sir Hector C. Cameron, M.D.; Professor Sir William Macewen, M.D., LL.D., F.R.S.; J. C. Renton, M.D.; George T. Beatson, M.D., C.B.; T. K. Dalziel, M.B. *Honorary Consulting Surgeons*—George Buchanan, M.D., LL.D.; Alexander Patterson, M.D. *Honorary Consulting Ophthalmic Surgeon*—T. Reid, M.D., LL.D. *Assistant Surgeons*—James H. Nicoll, M.B.; Duncan Macartney, M.D.; Robert Kennedy, M.A., D.Sc., M.D.; Alfred A. Young, M.A., M.B.; George Burnside Buchanan, B.A. (Cantab.), M.B., C.M. *Dispensary Physicians*—William R. Jack, B.Sc., M.D.; Henry E. Jones, M.B.; Hugh Galt, M.B.; James Carslaw, M.A., M.B., C.M.; John M. Cowan, B.A., M.B., B.C; John S. M'Kendrick, M.D. *Extra Dispensary Physicians*—Robert Fullarton, M.A., M.B., Ch.B.; James C. M'Clure, M.B., C.M. *Dispensary Physicians for Diseases of Women*—Robert Kirk, M.D.; J. M. Munro Kerr, M.B.; E. H. Lawrence Oliphant, M.D. *Dispensary Surgeons*—John Morton, M.B.; G. H. Edington, M.D.; Farquhar Macrae, M.B., C.M. *Extra Dispensary Surgeons*—Alexander MacLennan, M.B., C.M.; Archibald Young, B.Sc., M.B., C.M. *Dispensary Surgeon for Diseases of the Ear*—Thomas Barr, M.D. *Dispensary Surgeon for Diseases of the Throat and Nose*—J. Walker Downie, M.B. *Surgeon Dentist*—W. D. Woodburn, L.D.S. *Pathologist*—Professor Robert Muir, M.D. *Assistant Pathologist*—A. R. Ferguson, M.D. *Vaccinator*—John W. Nicol, M.B. *Medical Super-*

intendent—Donald J. Mackintosh, M.B., M.V.O. *Lady Superintendent*—Miss E. C. Shannon. *Secretary*—Henry Johnston, 125 Buchanan Street. The hour of visit is 9 A.M. The Dispensary for Out-Patients is open daily at 2 P.M. Vaccination—Mondays and Thursdays at 12 noon. The station is recognized by the Local Government Board. Fee, £1 1s. It is recommended that when practicable students should attend the vaccination course during the winter session. According to the present arrangement admission to the practice of this Infirmary is subject to the following regulations:—

1. No student shall be permitted to attend the Infirmary without a Ticket duly signed by the Superintendent.

2. The Fees payable shall be as follows:—

(*a*) Every Student shall pay a fee of £10 10s. for Hospital attendance, and this shall be kept quite separate from the Fees for Clinical Instruction.

(*b*) Every Student shall pay £3 3s. for each Winter Session and £2 2s. for each Summer Session of Clinical Instruction.

(*c*) Students who have completed their Clinical Course elsewhere shall be permitted to enter for a six months' course of the *Hospital only*, on payment of a fee of £2 2s.

(*d*) There shall be two Courses of Clinical instruction, the first extending from the beginning of November to April, and the second from the beginning of May to July.

(*e*) At the beginning of each Course the Student shall give intimation to the Superintendent of the Clinical Teacher whose course he wishes to attend, by filling up a form which will be supplied on application to the Superintendent.

3. The fees shall be paid to the Superintendent, who shall give each Student a Ticket of Admission to the Lectures of the Physicians or Surgeons he wishes to attend. He shall also hand to each of the Clinical Lecturers a list of the Students who have taken out Tickets for their respective Courses.

OUT-DOOR VISITATION.—Senior Students who have passed their Third Professional Examination are permitted to visit the sick poor in the Anderston district, under the supervision of certain Professors of the University and assistants.

Glasgow Royal Infirmary.—Number of beds, 587. Special wards are set aside for the treatment of Venereal Diseases, Diseases of Women, of the Throat and Nose, and special beds for Diseases of the Ear. *Physicians*—David Caldwell M'Vail M.B.; George Stevenson Middleton, M.A., M.D.; John Lindsay Steven, M.D.; Thomas Kirkpatrick Monro, M.A., M.D.; James Watson Allen, M.B. *Surgeons*—Henry E. Clark, C.M.G., L.R.C.P., etc.; David N. Knox, M.A., M.B.; John Barlow, M.D.; James Alexander Adams, M.D.; David Newman, M.D.; Quintin M'Lennan, M.B.; James Hogarth Pringle, M.B. *Gynaecologist*—James V. Kelly, M.D. *Diseases of the Ear*—James Kerr Love, M.D. *Diseases of the Throat and Nose*—John Macintyre, M.B. *Assistant Physicians*—Alexander Scott, M.D.; Walter K. Hunter, D.Sc., M.D.; John B. MacKenzie Anderson, M.A., M.B.; John W. Findlay, M.D.; David M'Crorie, L.R.C.P.; Hugh M'Laren, M.B. *Extra Assistant Physicians*—Norman M'Nair, B.Sc., M.D.; John Henderson, M.D.; Campbell S. Marshall, M.B.; *Assistant Surgeons*—P. M'Kellar Dewar, L.R.C.P., etc.; Henry Rutherfurd, M.A., M.B.; A. N. MacGregor, M.D.; James Luke, M.B.; Peter Paterson, M.B.; Harry C. Patrick, M.B. *Extra Assistant Surgeons*—A. G. Faulds, M.B.; John A. C. M'Ewen, B.Sc., M.B.; Thomas Kay, M.B. *Pathologist and Curator of Museum*—Charles Workman, M.D. *Assistant Pathologist*—Hugh M'Laren, M.B. The hour of visit is 9 a.m. The hours at the dispensary for out-patients are as follows:—*Diseases of the Ear*—James Kerr Love, M.D. 3.30 p.m., Tuesday and Friday. *Diseases of the Throat and Nose*—R. Fullerton, M.D. 11 a.m., Tuesday and Friday. *Diseases of the Eye*—J. Rowan, M.B.; and H. W. Thomson, M.D. 12 Noon, Monday, Wednesday, and Friday. *Diseases of the Skin*—Alexander Morton, M.A., M.D. 11 a.m., Monday, Wednesday, and Friday. *Diseases of Women*—G. Balfour Marshall, M.D. 11.30 a.m., Tuesday, Thursday, and Saturday. *Diseases of the Teeth*—William Howard Gray, L.D.S. 3.30 p.m., Monday, Wednesday, and Saturday. *Vaccination*—Hugh Borland, M.B., D.P.H., 12 Noon, Monday and

Thursday. The station is recognised by the Local Government Board. The Electric Pavilion contains all the most recent apparatus for the diagnosis and treatment of disease by Electricity. *Consulting Electrician* — John Macintyre, M.B. *Medical Electrician*—James R. Riddell, L.R.C.P., etc. *Assistant Medical Electrician*—Samuel Capie, M.B. Fees, which include Hospital Practice and the Clinical Lectures, for one year £10 10s., six months £6 6s., three months £4 4s. The total fee is £21. Vaccination £1 1s. *Superintendent*—J. Maxtone Thom, M.B., D.P.H. *Matron*—Mrs. Strong. *Secretary*—Henry Lamond, 93 West Regent Street.

EYE INFIRMARY, 174 Berkeley Street and 80 Charlotte Street.—Hour of Visit, 1 P.M. daily. Fee for six months, £1 1s.; for twelve months, £2 2s.

OPHTHALMIC INSTITUTION, 126 West Regent Street.—Hour of Visit. 2 P.M. Fee for a qualifying course, £1 1s.

INSANITY.—During the Summer Session Dr. Yellowlees gives in the University a Course of Lectures on Insanity at 12 noon on Wednesdays, and Clinical Instruction at the Glasgow Royal Asylum, Gartnavel, at 10 A.M. on Saturdays. Fee for the combined Course, £2 2s.

At Gartloch Asylum, Gartcosh, Senior Medical Students may obtain appointments as Resident Clinical Clerks. These appointments are made in April and October for six months. Board and lodging with railway fare to and from Glasgow are allowed, and Classes can be attended in Glasgow in the earlier part of the day. Application should be made to the Medical Superintendent, W. A. Parker, M.B., considerably in advance.

Clinical Instruction in Fevers is given at the Ruchill Hospital and the Belvidere Hospital. Fee for a course extending over ten weeks, once a week, £1 1s. Apply to Mr. James D. Borthwick, 285 George Street, Glasgow.

There are also Hospitals for Diseases of the Skin and Ear.

FACULTIES IN THE UNIVERSITY.

The whole classes of the University are arranged in five Faculties—Arts, Science, Medicine, Law, and Divinity.

I.—FACULTY OF ARTS.

The Faculty of Arts comprehends four Departments of study, viz.:—A. *Language and Literature*, embracing the classes of Humanity, Greek, English, French, German, Italian, Hebrew and Semetic Languages; B. *Mental Philosophy*, comprising Logic and Metaphysics, Moral Philosophy, Political Economy, Education, Philosophy of Law; C. *Science*, including Mathemathics, Natural Philosophy, Astronomy, Chemistry, Zoology, Botany; D. *History and Law*, containing History, Constitutional Law and History, Roman Law.

A. LANGUAGE AND LITERATURE.

I. HUMANITY.

The original foundation of this Professorship is not extant; but it appears from the records of the College that it must have been instituted previous to the year 1637. The Professor is elected by the University Court.

Professors from the year 1706.

1706. Andrew Rosse.	1773. Wm. Richardson, M.A.
1735. George Rosse.	1815. Josiah Walker, M.A.
1754. George Muirhead.	1831. William Ramsay, M.A.

1863. George G. Ramsay, M.A., LL.D., Litt.D.

The Humanity Class consists of three divisions—*Middle*, *Senior*, and *Honours Class*, which latter class all members of the ordinary Senior Class have the option of attending. Students not requiring a Public Certificate for the Degree or other purpose may attend any class as Private Students. Private Students are students who attend the class without taking part in the class work.

In all the classes the students prepare certain work prescribed, and are examined orally every day. In the Honours Class the business is conducted partially by oral examination, but mainly by Lectures and Prelections delivered by the Professor. Students do *Unseens* from time to time, and may offer Latin Verse Composition.

Middle Class.

The MIDDLE CLASS meets at 11 A.M. Students who have passed the Preliminary or Leaving Certificate Examination on the Lower Grade are eligible for this class.

Senior Class.

The SENIOR CLASS is taught in two divisions, one meeting daily at 8 A.M. and the other at 9 A.M. The divisions will be arranged, so far as possible, to suit the circumstances of students. All students attending the Senior Class have the option also of attending the Honours Class from 1 to 2 P.M. The subjects of study in the class at the morning hour are:—The works of Horace—Propertius—Virgil—Cicero — Sallust—Livy—Tacitus—Latin Prose Composition—Latin Prosody—Roman History and Antiquities. The students are examined on paper at intervals during the session. Latin Prose is taught in three sections, which meet at 1 P.M. on Wednesdays.

Honours Class, 1 *p.m.*

In this class advanced work is read. Special regard is paid to the needs of students preparing for the Honours Degree in Classics, as well as for Classical Scholarships, the Home and Indian Civil Service Examinations, etc.

One subject is read and lectured upon on Mondays and Fridays; another subject on Tuesdays and Thursdays; and Latin Prose is taught to the Honours Section at 11 A.M. on Thursdays. Students are allowed to attend as Private Students, *i.e.* as listeners only, without doing any of the work of the class; but in that case they do not receive tickets qualifying for the Degree.

Honour Students, wishing to do Latin Prose for the Degree or other purposes, may attend for Latin Prose only.

A course of five sessions embraces Lectures and Prelections on Plautus—Terence — Lucretius — Catullus — Propertius—Virgil—Persius—Statius—Juvenal—Martial—Tacitus—Quintilian, etc.

The subjects read in the Session 1903-4 will be as follows:—

1. HONOURS CLASS, AT 1 P.M.—Juvenal; Cicero, *De Oratore* II.; Tacitus, *Annals* XIII.; Horace, *Ars Poetica* and *Epistles*

II., with Quintilian, *Inst. Or.* X. Cap. I.; Virgil, *Æn.* IX. and X.

2. Senior Class, at 8 or 9 a.m.—Propertius (Ramsay's Selections), at 8 and 9 a.m.; Cicero, *Letters* (Tyrrell's Selection), [at 9 a.m.], *Pro Sestio* [at 8 a.m.]; Horace, *Satires* II., at 8 and 9 a.m.; Ramsay's Latin Prose Composition, Vols. I. and II., Antiquities, and Prosody; Howe and Leigh's *History of Rome.*

II. GREEK.

This Professorship was founded by the College in or about the year 1581. The Professor is elected by the University Court.

Professors from the year 1704.

1704. A. Dunlop, LL.D.
1746. James Moor, LL.D.
1774. John Young, M.A.
1821. Sir Daniel K. Sandford, M.A.
1838. Edmund L. Lushington, LL.D.
1875. R. C. Jebb, D.C.L., Litt.D., LL.D.
1889. G. G. A. Murray, M.A., LL.D.
1899. John S. Phillimore, M.A.

The Greek Class consists of two divisions, the Ordinary and the Honours. Students not requiring a Public Certificate may attend as Private Students, *i.e.* without doing the work of the class.

All students should possess the following books:—*Ancient Atlas*; *Greek Lexicon*, Liddell & Scott (large or intermediate edition—the small edition is not sufficient); some History or Primer of Greek Literature; *Greek Grammar*, Goodwin.

Senior students are recommended to get Gow's *Companion to the School Classics*, and Seyffert's *Dictionary of Classical Antiquities, etc.*, translated by Nettleship and Sandys; or, in place of Seyffert, Smith's two small volumes, the *Classical Dictionary* and the *Dictionary of Antiquities.*

ORDINARY CLASS.

This is the ordinary qualifying class for graduation; all members of it must have passed the Preliminary Examination in Greek on the higher standard, or an equivalent examination.

All students requiring a certificate of attendance must duly perform the work of the class; but those who do not require a certificate, or those who have not passed the Preliminary Examination, may attend as Private Students, *i.e.* without doing the work.

The class meets at 8 A.M. every week-day except Saturday.

The class hour is chiefly occupied by the Professor's lectures, but the class is liable to be examined orally or on paper every day. The work done includes the reading of Greek Authors; Greek Prose Composition; Written Exercises in translation; Greek History, Language, Antiquities, and Literature.

HONOURS CLASS.

The Honours Class meets at 12 noon every week-day except Saturday. Members of the Ordinary Class are at liberty to attend; they are not recommended to attempt the work of the class except in so far as it suits their convenience. The Class consists of two divisions, viz.: First year's students (*i.e.* those who are seeking the certificate with a view to graduate with Honours, and doing the full work of the class), and Private students who have already been through the class. These may follow the class work, but arrangements will be made for more advanced teaching for them, either individually or in small voluntary groups.

The work is similar to that done in the Ordinary Class, but more advanced, greater attention being given to the History of Literature, Philology, Criticism, and Philosophy.

Subjects for Session 1903-4.

ORDINARY CLASS. — Euripides, *Hippolytus* and *Medea* (Murray's New Oxford Text); Demosthenes, *Philippics* I., II., III., *Olynthiacs* I., II., III., *On the Chersonese*, and *On the Peace* (Clarendon Press); Aristophanes, *Plutus* (Oxford Text); Holm's *History of Greece*, Vol. II. and Vol. III.; Greek Grammar and Literature; Written Translations and Prose Composition.

HONOURS CLASS.—For the lectures in this class the student should have read the books beforehand.

Subject: Greek Poetry from Hesiod to Theognis. *Texts*—Homeric Hymns (Monro and Allen, Oxford); Hesiod (Teubner); Fragments of Tyrtaeus, Mimnermus, Solon, etc. (Poetae Graeci Minores): Theognis (Hamson, Cambridge). History to be arranged. Translations, Essays, Prose Competition.

If any students wish it, a small voluntary class for Greek Verse will be formed.

Written Translations and Prose Composition.

III. ENGLISH LANGUAGE AND LITERATURE.

This Chair was founded by ordinance of the Universities Commission (1858) of date 25th November, 1861, and is in the gift of the Crown.

Professors.

1862. John Nichol, LL.D.
1889. Andrew Cecil Bradley, M.A., LL.D.
1900. W. A. Raleigh, M.A.

N.B.—*Students are strongly advised to take the English Literature Class, as has hitherto been the custom, in the later part of their Course. Those who, for special reasons, desire to take it early should consult the Professor before taking out their class-tickets.*

Ordinary Class.—During session 1903-4 the class will meet daily, except on Saturday, at 11 a.m.

The subjects to be studied are the following:—

I. On Monday, Wednesday, and Friday, throughout the session, a continuous course will be given on the History of English Literature during the Eighteenth Century (1700-1784). The works prescribed for study are:—

Swift, *Tale of a Tub*; Pope, *Satires and Epistles*, Prologue, I., IV., V., Preface to Shakespeare; Addison, Coverley Papers in the *Spectator*; Johnson, *Vanity of Human Wishes*, and Preface to Shakespeare; Gray, *Poems*; Goldsmith, *Deserted Village*; Sheridan, *The School for Scandal*; Morgan, *Essay on Falstaff*; Burke, *Speech on Conciliation with America.*

II. On Tuesdays and Thursdays the following subjects will be studied:—

(1) The history of the English Language.

(2) English Composition. Text-books: *Composition Primer* and *Questions and Exercises on English Composition*, Nichol and M'Cormick.

(3) Shakespeare, *Henry IV.*, Parts I. and II., *Macbeth*; Tennyson, *Selected Poems* (Macmillan).

Students who have already taken the Ordinary Class are permitted to attend the Lectures on Monday, Wednesday, and Friday, for a Fee of £2 2s. Such attendance cannot be reckoned towards graduation.

Honours Class.—The class meets daily at 12 noon; on Monday, Wednesday, and Friday for the study of special authors and of selected subjects connected with the history of English Literature (1350-1900); on Tuesday and Thursday for the study of Anglo-Saxon and Middle English. The special authors to be studied during session 1903-4 are Chaucer and Shakespeare.

BRITISH HISTORY CLASS FOR HONOURS IN ENGLISH.—See p. 86.

DEGREE EXAMINATIONS.—The subjects for these in October, 1903, and April and October, 1904, will be found on p. 202. Students are advised to present themselves for their examination in the April or October immediately following their attendance of the Ordinary Class, as the subjects studied in class will be changed from year to year.

IV. FRENCH LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University in 1895.

Lecturers.

1895. Alfred Mercier, L. ès L.
1898. CHARLES MARTIN, M.A. (Paris), O.A.

I. ORDINARY CLASS.—The French Ordinary Class meets daily at 11 A.M. in the Conveyancing Class-room, and the course which extends to one hundred meetings, qualifies for graduation in Arts. The class is conducted in French, but will be partly conducted in English, during the first weeks of the session, if found necessary.

The work of the class will comprise the following subjects:

A. *Literature.*—Mondays, Wednesdays, and alternate Fridays.

a. La comédie de Molière; Étude des principaux chefs d'œuvre.

b. Explication de textes classiques du xviii^{e} et du xix^{e} siècle.

c. Leçons et interrogations sur l'histoire générale de la littérature française.

B. *Language.*—Tuesdays, Thursdays, and alternate Fridays.

a. Translations into and from French will be corrected.

b. History of the French Language; Historical Grammar (Text-book: A. Darmesteter, *Grammaire historique de la Langue française—Syntaxe*).

c. Leçons sur l'art d'écrire; compositions françaises.

d. Exercices pratiques de lecture et de prononciation; Eléments de phonétique pratique.

It is hoped that a tutorial class of pronunciation will be organized.

Students who take French for purposes of graduation must attend both classes; but students who do not intend to graduate may take the Language class alone or the Literature class alone. The fee for one class alone is £2 2s.

II. HONOURS CLASS.—This Class will meet on Tuesdays, Fridays, and alternate Wednesdays, at noon.

A. *Literature.*—Evolution des principaux genres littéraires au xix^e siècle (1800-1850). Poésie, Drame, Roman, Critique, Histoire, Eloquence politique et religieuse.

B. *Language.*—*a.* Reading and translation, with philological commentaries, of old French texts. (1) Gaston Paris, *Extraits de la Chanson de Roland*; (2) *Extraits des Chroniqueurs français* (Edition Gaston Paris—Hachette); and (3) Montaigne, *Les Essais* (Edition classique Jeanroy, Hachette).

b. History of the French Language; Historical Grammar (Text-Book: A. Darmesteter, *Grammaire historique de la Langue française*).

c. Travaux pratiques: leçons faites par les Etudiants, discussion de travaux écrits.

d. Interrogations sur l'histoire de la Littérature française.

e. Traductions et Compositions françaises.

V. GERMAN LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University in 1899.

Lecturers.

1899. Alexander Tille, Ph.D.
1900. GEORGE P. THISTLETHWAITE, B.A., Ph.D.

I. ORDINARY CLASS.—The German Ordinary Class meets daily at 10 a.m. in the Conveyancing Class Room, and the course, which extends to one hundred meetings, qualifies for graduation in Arts. Students who do not intend to graduate may take either the Literature class or the Language class alone. Part of the work will be done in German, as soon as the students are sufficiently advanced for it. The fee for one class is £2 2s.

A. *Language.*—Mondays, Wednesdays, and Thursdays. 1. Higher Modern German Grammar. 2. Translation of selected parts of the following works: Schiller, *Wilhelm*

Tell, *Wallenstein's Lager*, and *Piccolomini*; Goethe, *Egmont*, *Tasso*; Lessing, *Laokoon*; Buchheim, *Deutsches Theater*, Part I. 3. Translation of selections from 16th century writers. 4. German Prose: Translation of an English play into German. 5. Essays on class work. In addition to the above, opportunities will be given for speaking German, but not in the regular lecture hours. Text-books: Brandt, Grammar of the German Language; Sahr, *Hans Sachs und Johann Fischart*; Buchheim, *Materials for German Prose Composition* (large edition).

B. *Literature.*—Tuesdays and Fridays. The two Classical Periods. Text-books: Kluge, *Geschichte der deutschen National-Litteratur*, or Robertson, *History of German Literature*; Löschhorn, *Lessing's Leben und Werke.*

Students who intend to take the Honours Course in German, or who propose to go to Germany during the long vacation, should consult the Lecturer before doing so.

II. Honours Class.—This Class will meet on Mondays, Thursdays, and alternate Wednesdays at 12.15 p.m.

1. *Literature*: Luther to Goethe, with special reference to the *Sturm und Drang* Period, and to the Faust Legend. 2. Higher Modern and Middle High German Grammar. 3. Das deutsche Volkslied. 4. Interpretation of selected parts of Middle High German Texts: Hartman von Aue, Iwein; das Nibelungenlied. 5. Essays on class work. Text-books: Kluge, *Geschichte der deutschen National-Litteratur*; Scherer, *History of German Literature*; Paul, *Mittelhochdeutsche Grammatik*; Wright, *Middle High German Grammar;* Pfeiffer, *Iwein;* Pfeiffer, *das Nibelungenlied;* Sahr, *das deutsche Volkslied.*

As the subjects for Graduation may change from year to year, Students are strongly advised to take the examination in the April or October immediately following their attendance of the Class Lectures.

VI. ITALIAN LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University Court in 1902.

Lecturer—Signor Fernando Agnoletti.

An Italian Elementary Class will meet twice weekly at an hour to suit the convenience of Students. It will deal chiefly with Italian Grammar and exercises on Language, and will close with a short sketch of Italian Literature. Modern Italian prose and easy poetry will be read.

Ordinary Class. This Class will meet daily at an hour to be fixed in agreement with the students.

Language. I. (Mondays) Short epitome of Italian Grammar. Translations from and into Italian. Reading of modern prose. Prose compositions. II. (Thursdays) Italian History from the age of Dante to the time of Michelangelo. Prose literature "individuale" of the Renascence: Leon Battista Alberti, Leonardo, Cellini. Oral exercises. III. (Wednesdays after New Year) Outline of the history of the Language.

Literature. I. (Tuesdays before New Year) The Study of Dante. II. (Wednesdays before New Year) Ascetic and religious Literature of the XIII. and XIV. centuries. III. (Tuesdays after New Year) Italian Life and Art in the prose Literature of the Renascence (XV. and XVI. centuries): A. Manetti, Vespasiano da Bisticci, Baldesar Castiglione's Il Cortegiano, Giorgio Vasari. IV. (Fridays) Il Paradiso.

Text books: F. Agnoletti, *Tavole di Grammatica Italiana;* Leopardi, Prose (Barbèra Diamante, Firenze); Leonardo, *Trammenti* (Barbèra Diamante, Firenze); *I Fioretti di S. Francesco*, a cura di L. Passerini (Sansoni, Firenze); A. Manetti, *Operette*, a cura di G. Milanesi (Le Monnier, Firenze); Castiglione, *Il Cortegiano*, a cura di V. Cian (Sansoni, Firenze); Dante, *La Divina Commedia*, a cura di T. Casini (Sansoni, Firenze).

Honours Class.—This class will meet on Tuesdays, Fridays, and alternate Wednesdays, at an hour to be fixed in agreement with the students.

I. (*a*) The Provençal Lyric in Italy—Growth of Lyric Poetry in Tuscany—The Poetry of the "Dolce Stil Nuovo": Guido Guinicelli, Dante's Vita Nuova and Canzoniere, Cino da Pistoia. (*b*) Petrarca. (*c*) "Lirica borghese" in the XIV. century—Lyric Poetry of the XV. century: Lorenzo il Magnifico, Angelo Poliziano—Lyric Poetry of the XVI. century: Petrarchism, the Reformation under Pietro Bembo, the Poetesses, Michelangelo.

II. Epopea, Carolingia and Classical Legends—Prose Legends of Chivalry—Popular Narrative Poetry: its special developments in Tuscany—Luigi Pulci—Matteo Maria Boiardo—"Ottava Rima" as perfected by Poliziano—Ludovico Ariosto—Influence on English and French Literature.

Text-Books: Dante, *Vita Nuova*, a cura di L. Passerini (Sansoni, Firenze); Petrarca, *Le Rime*, a cura di Carducci e Ferrari (Sansoni, Firenze); Michelangelo, *Rime e Lettere* (Barbèra (Diamante), Firenze); Ariosto, *Orlando Furioso* (Sansoni's Piccola Biblioteca, Firenze).

The classes are open to both men and women.

VII. HEBREW.

(See under Faculty of Theology, p. 134.)

VIII. ARABIC.

(See under Faculty of Theology, p. 135.)

B. MENTAL PHILOSOPHY.

I. LOGIC AND RHETORIC.

This Professorship is one of those founded in the charter of *Nova Erectio* in 1577. The Professor is elected by the University Court.

Professors from the year 1727.

1727. John London.	1827[2]. Robert Buchanan, LL.D.
1751. Adam Smith, LL.D.	1864. John Veitch, LL.D.
1752. James Clow.	1895. Robert Adamson, LL.D.
1787[1]. George Jardine, M.A.	1902. ROBERT LATTA, D.Phil.

The Logic Class meets daily, on five days of the week, from 9 to 10 A.M.

The Course of Lectures includes the following subjects:—

I. LOGIC.—The Principles of Deductive and Inductive Logic. Special reference will be made to Mill's *Logic*, Books I., II., and III.

II. PSYCHOLOGY.—A general account of the composition and development of Mind, with a more detailed consideration of the process of knowledge.

III. METAPHYSICS.—An introduction, historical and critical, to the general questions of Modern Philosophy. The historical reference will concern mainly the doctrines of Descartes, Locke, Berkeley, and Hume.

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[1] Mr. Jardine was assistant and successor to Mr. Clow from 2nd June, 1774.

[2] Mr. Buchanan was assistant and successor to Mr. Jardine from 1st October, 1824.

Students before entering the class are recommended to read some elementary work on Formal Logic, such as Jevons' *Elementary Lessons in Logic*, Fowler's *Deductive Logic*, or Mellone's *Introductory Text-book of Logic*.

An advanced class is held in which lectures are given on some of the subjects prescribed for Honours in Mental Philosophy. During next session this class will meet at 1 P.M., on three or four days weekly.

Students before entering the honours class are recommended to read (1) the sections on pre-Kantian philosophy in any history of Modern Philosophy, *e.g.* Höffding, Falckenberg, Erdmann, or Adamson, and (2) Some history of Greek Philosophy (period before Plato), as Zeller, Burnet, Erdmann, or Gomperz. Janet and Séaille's *History of the Problems of Philosophy* should also be consulted.

II. MORAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio* in 1577. The Professor is elected by the University Court.

Professors from the year 1727.

1727. Gerschom Carmichael.
1730. F. Hutcheson, LL.D.
1746. Thomas Craigie.
1752. Adam Smith, LL.D.
1764. Thomas Reid, D.D.
1796[1]. Archd. Arthur, M.A.
1797. James Mylne, M.A.
1839. William Fleming, D.D.
1866. Edward Caird, D.C.L., LL.D.
1894. HENRY JONES, M.A., LL.D.

The Moral Philosophy Class meets at 8 A.M. on five days of the week.

In this class Moral Philosophy is treated both historically and systematically. In connection with the systematic part of the course lectures are given on the metaphysical and psychological implications of Morals, and in connection with the historical part the development of Morals is traced, and an account given of some of the main ethical theories of ancient and modern times.

The work of the class will further comprise the study of (1) Janet and Séaille's *History of the Problems of Philosophy*, Vol. II., Part II.; (2) Plato's *Republic* (translation by Davies and Vaughan), and students are recommended to read in conjunction therewith Bosanquet's *Companion to Plato's Republic*, or Nettleship's *Philosophical Lectures and Remains*, Vol. II.

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[1] Mr. Arthur was assistant and successor to Dr. Reid from 22nd May, 1780.

In the Higher Moral Philosophy Class the Professor will lecture on some of the subjects prescribed for the Degree with Honours. During next session this class will meet at 12 noon.

POLITICAL PHILOSOPHY.

Lecturer—ROBERT A. DUFF, M.A.

The Political Philosophy Class meets three days a week during the Summer Session. It is intended to meet the requirements of students preparing for the Degree of M.A. with Honours in *Mental Philosophy*, or in *Economic Science*, and for the Examinations of the Civil Service in Political Science.

The Course of Lectures will include a discussion of the main theories as to the nature and functions of the State; a critical account of the growth of institutions; and an analysis of the moral principles underlying political rights and obligations.

Students will be expected to pursue during the Session a course of reading of prescribed portions of books dealing with the subjects treated of in the Lectures, and, in particular, to acquire accurate knowledge of Aristotle's *Politics*, Green's *Principles of Political Obligation*, and Sidgwick's *Elements of Politics*. Essays and exercises will be prescribed from time to time.

In addition to this Summer Class, Lectures will be delivered during the Winter Session in connection with the Honours Course in Moral Philosophy.

The days and hours of these Lectures will be suited to the requirements of the students who wish to attend.

III. POLITICAL ECONOMY.

This Chair (called the Adam Smith Chair of Political Economy) was founded by Ordinance No. 149 of the Universities Commission (1889) of date 25th February, 1896, with an endowment of fifteen thousand pounds sterling, given by Mr. Andrew Stewart, merchant, Glasgow. The patronage is vested in the University Court, conjointly with one representative from time to time elected by the Merchants' House of the City of Glasgow, one representative from time to time elected by the Trades' House of the City of Glasgow, and one representative from time to time elected by the Chamber of Commerce of the City of Glasgow. The professor is a professor in the Faculties of Arts and Law.

Before the founding of the Chair, Political Economy was attached to the Chair of Moral Philosophy till 1892, when a separate lectureship was instituted by the University.

Professor.

1896. William Smart, M.A., D.Phil., LL.D.

The Political Economy Ordinary Class meets at 2 p.m.

The Lectures, which are partly doctrinal, partly historical, are intended to accompany the study of prescribed books. The first part of the course will deal with Demand and Consumption: the Agents of Production—Land, Labour, Capital, and Organization: Theory of the Equilibrium of Demand and Supply: Value, or Distribution and Exchange: Trade Unions. (Text-books: Marshall, *Elements of Economics of Industry*, third edition, 1899; Smart, *The Distribution of Income.*) Thereafter Money, Credit and Banking, and International Trade will be taken up. (Text-books: Gide, *Political Economy*, Book II.; Bastable, *Theory of International Trade.*) For preparatory reading students are recommended to Gide's *Political Economy* (Isbister, London, or eighth French edition, 1903, Larose, Paris).

Honours Class. The Class meets at 3 p.m. Subjects: Taxation and Public Finance, with some study of the Theory of the State. Special study will be made of the activities and finance of municipalities, and of current economic problems as they present themselves.

Students are recommended to confine themselves for preparatory reading to mastering Marshall's *Principles of Economics*, Vol. I., Books V. and VI., fourth edition, 1898.

IV. EDUCATION.

THEORY, ART, AND HISTORY OF EDUCATION.

This Lectureship was instituted by the University in 1894.

Lecturers.

1894. David Ross, M.A., B.Sc., LL.D.
1899. John Adams, M.A., B.Sc.
1902. John Clark, M.A.

N.B.—Students are strongly advised not to take the Education Class, unless they have already attended either the Logic Class or the Moral Philosophy Class.

The Education Class meets daily at 4 P.M. The course consists of one hundred lectures qualifying for graduation in Arts

A. THEORY.—The nature and limits of Education; its principles; its logical, psychological, and ethical bases.

B. ART.—Communication between minds; method in general and the evolution of modern methods; sequence of studies and their relative values, utilitarian and disciplinary.

C. HISTORY.—Educational systems in general; special study of the periods to which the prescribed text-books refer, and of early Scottish education.

Books for class work and reference.—Adams's *Herbartian Psychology applied to Education* (Isbister); Davidson's *Aristotle and the Ancient Educational Ideals* (Heinemann); Ascham's *Scholemaster* (Cassell & Co.); Milton's *Tractate on Education* (Cambridge University Press); Locke's *Thoughts on Education* (Cambridge University Press); Rousseau's *Émile* (Payne's Translation in 'International Education' Series); Herbert Spencer's *Education* (Williams & Norgate); Fitch's *Lectures on Teaching* (Cambridge University Press).

V. PHILOSOPHY OF LAW.

(See under Faculty of Law, p. 126.)

C. SCIENCE.

I. MATHEMATICS.

This Professorship, long suppressed for want of funds, was revived by an Act of Faculty in 1691. The Professor is appointed by the University Court, and is a member not only of the Faculty of Arts, but also, since 1893, of the Faculty of Science.

Professors from the year 1691.

1691. George Sinclair.	1796[1]. James Millar, M.A.
1699. Robert Sinclair, M.D.	1832. James Thomson, LL.D.
1711. Robert Simson, M.D.	1849. Hugh Blackburn, LL.D.
1761. James Williamson, D.D.	1879. WILLIAM JACK, LL.D.

Ordinary Class.

Subjects: *Euclid*, Books IV., VI., and XI. 1—21, more advanced *Algebra*, and the Elements of *Transversals* and of

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[1] Mr. Millar was assistant and successor to Dr. Williamson from 26th Feb., 1789.

Analytical Geometry of the straight line and circle, Trigonometry, including solution of triangles. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, and one from 12 to 1.

Intermediate Honours Class.

Subjects: *Plane Trigonometry, Analytical Conics, Differential and Elements of Integral Calculus.* There will be two divisions of the Class, one meeting from 10 to 11, and one meeting from 11 to 12, daily, except on Saturdays.

Advanced Honours Class.

Subjects: *Integral Calculus, Spherical Trigonometry, Geometry of Three Dimensions, Differential Equations.* The class meets at 11-12 on Mondays, Wednesdays, and Fridays.

For the "Lorimer," the "Metcalfe," and the "Muir" Bursaries in Mathematics, see under Bursaries; and for the Cunninghame Gold Medal, see under Prizes.

II. NATURAL PHILOSOPHY.

This Professorship was founded by the Charter of *Nova Erectio* in 1577; and the Professor was confined to the department of Natural Philosophy in 1727. The Professor is elected by the University Court, and is a member not only of the Faculty of Arts, but also, since 1893, of the Faculty of Science.

Professors from the year 1727.

1727. Robert Dick.
1751. Robert Dick, M.D.
1757. John Anderson, M.A.
1796. James Brown, LL.D.
1803. W. Meikleham, LL.D.
1846. Lord Kelvin, D.C.L., LL.D., F.R.S.
1899. Andrew Gray, LL.D., F.R.S.

University Assistant.

James W. Peck, M.A.

Arnott and Thomson Demonstrator.

James Muir, D.Sc.

Laboratory Assistant.

James G. Gray, B.Sc.

I. Ordinary Class.—The Ordinary Natural Philosophy Class meets daily at 9 a.m. The main divisions of the course are Elementary Dynamics and Properties of Matter, Sound, Heat, Light, Magnetism and Electricity. The lectures are fully illustrated by experiments. A detailed programme of the course will be published before the beginning of the session and supplied to students on application at the Physical Laboratory.

Tutorial Class.—Students attending the Ordinary Class are recommended also to attend the Tutorial Class, which meets on Tuesdays and Thursdays at 11 A.M. The work done in this class consists largely of numerical and other examples dealing with the subject-matter of the Ordinary Class lectures.

II. HIGHER MATHEMATICAL CLASS, A.—This class meets three times a week, on Mondays, at 1 P.M., and on Wednesdays and Fridays, at 12 noon, and is suitable for Honours Students and students who are proceeding to the Degree of B.Sc. in Pure Science.[1]

The work comprises the Mathematical Theories of selected special branches of Natural Philosophy. The subjects treated in next session will be Higher Dynamics, and one or more of the following: Thermodynamics, Wave Theory of Light, Conduction of Heat.

III. HIGHER MATHEMATICAL CLASS, B.—This class deals mainly with Dynamics, which will be treated in such detail and with such reference to practical problems as may render it suitable for Students of Engineering. A knowledge of Elementary Differential and Integral Calculus only will be assumed in this class, and students who desire to join it are strongly advised to begin the study of this branch of mathematics at least in the preceding summer. Professor Gibson's Elementary Treatise on the Calculus will be found useful in connection with this class. The class will meet on Mondays, Tuesdays, and Thursdays at 12 noon throughout the session. Attendance upon it will qualify for the Degree of B.Sc. in Engineering Science.

IV. ELECTRICITY PURE AND APPLIED.—This class will meet at 12 noon on Wednesdays and Fridays, during the Winter Session, if a sufficient number of students present themselves. The course is one of the options for the Degree of B.Sc. in Engineering Science.

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[1] The Course in Natural Philosophy for the Final Examination for the Degree of B.Sc. in Pure Science consists of the Higher Mathematical Class (II., A) and the Laboratory Course (B).

It is very desirable that students attending this class should either be attending or have already attended a course of Practical Physics in the Physical Laboratory.

V. PHYSICAL LABORATORY.—Experimental Courses will be given in the Physical Laboratory from 10 to 4 daily throughout the Winter and Summer Sessions.

A. Ordinary Course.—This is the qualifying course for the Science Degrees. It is suitable for ordinary students of Natural Philosophy, and is recommended to all whose arrangements will permit of their taking a laboratory course. Attendance may be made up of three months in the Winter Session together with the Summer Session. A student may qualify for the Degree of B.Sc. in Engineering Science by attendance in the Summer Session only.

B. Advanced Course.—A series of advanced exercises in Heat, Light, and Electricity has been arranged, and will be carried on during the Winter Session.[1]

A syllabus of Courses *A* and *B* may be had on application at the Laboratory; arrangements as to hours of attendance will be made at the beginning of each session.

C. Research Work.—Research work is carried on daily under the superintendence of the Professor, his Official Assistant, and the Arnott and Thomson Demonstrator.

Books recommended: Ordinary Class (I.).—Watson's *Text-Book of Physics* and Bottomley's *Mathematical Tables.* For reference, Thomson and Tait's *Elements of Natural Philosophy*; Gray's *Treatise on Physics*, Part I. Higher Mathematical Class (II.).—Gray's *Treatise on Physics*, Part I.; and Treatises recommended in connection with special subjects treated. Higher Mathematical Class (III). — Gray's *Treatise on Physics*, Part I. Electricity Pure and Applied (IV.). — Gray's *Absolute Measurements in Electricity and Magnetism* (smaller treatise); Maclean's *Physical Units.* Physical Laboratory (V.).—Stewart and Gee's *Elementary Practical Physics*; Glazebrook and Shaw's *Practical Physics*; Gray's *Absolute Measurements in Electricity and Magnetism* (smaller treatise). For reference, Kohlrausch's *Physical Measurements*; Wiedemann's *Elektricität*; Gray's *Theory and Practice of Absolute Measurements in Electricity and Magnetism.*

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[1] See note on preceding page.

PHYSICS.

Lecturer—JAMES W. PECK, M.A.

The lectures of this course are designed primarily for students proceeding to the First Professional Examination in Medicine. They are delivered daily at 11 A.M. during the Summer Session in the Natural Philosophy Department, and embrace the fundamental principles of the Dynamics of Solids, Liquids, and Gases, and the rudiments of Sound, Light, Heat, Magnetism, and Electricity. A detailed programme of the subjects of the course, containing the titles of books recommended for use by students and of works which may be consulted, is given to each student at the beginning of the course.

Two written examinations are held during the session, and the Class meets for a tutorial hour weekly in which additional instruction is given by oral examination and by exercises on the previous lectures.

For the Arnott Prize in General Physics, see Index.

III. ASTRONOMY.

(See under Faculty of Science, page 88.)

IV. CHEMISTRY.

(See under Faculty of Medicine, page 100.)

V. ZOOLOGY.

(See Natural History, under Faculty of Medicine, page 99.)

VI. BOTANY.

(See under Faculty of Medicine, page 98.)

D. HISTORY AND LAW.

I. HISTORY.

This Chair was founded by Ordinance No. 28 of the Universities Commission (1889) of date 5th June, 1893. The Professor is appointed by the University Court.

Professors.

1894. Richard Lodge, M.A.
1899. DUDLEY J. MEDLEY, M.A.

ORDINARY CLASS.—The Class meets daily at 10 A.M., except on Saturdays. The course consists of one hundred lectures qualifying for graduation.

In session 1903-4 the Professor will lecture on the

History of England and Scotland to 1880. Any recognised text-book may be taken by the student as the basis of his study. The Professor would, however, especially recommend Green, *Short History of the English People*, together with *either* Powell and Tout, *History of England*, *or* Hassall, *Class-Book of English History* (Rivington's) and Hume Brown, *History of Scotland*. Those who are taking the class with a view to Honours in Economics should add G. Townshend Warner, *Landmarks in English Industrial History* (Blackie). Before joining this class students would do well to make a preliminary study of the geography of the British Isles and Empire, and to practise themselves in the drawing of outline maps.

Honours Class.—This Class will meet on Mondays, Wednesdays, and Fridays, at 11 A.M. During session 1903-4 the Professor proposes to lecture on the History of the Middle ages: 476-1272, with especial reference to the period 800-1272.

Students who intend to join this class would do well to study the geography of continental Europe, and, if possible, to acquire some facility in reading ordinary narrative French. They are also recommended to read the following books—Bryce, *Holy Roman Empire*; Church, *Beginning of the Middle Ages*; Guizot, *History of Civilisation in France*. For a more detailed list of books, application should be made during the vacation, either personally or by letter, to the Professor.

BRITISH HISTORY CLASS FOR HONOURS IN ENGLISH.

This Class meets on Mondays, Wednesdays, and Fridays, at 10 A.M. It is more particularly concerned with the periods of British History prescribed for Honours in English.

The period prescribed for session 1903-4 is that from 1485 to 1603, more especially down to the defeat of the Spanish Armada; and the books prescribed are More's *Utopia*; John Knox's *History of the Reformation in Scotland*, Bks. I. and II.; *Voyages of Elizabethan Seamen* (selections from Hakluyt by E. J. Payne, Vol. I.).

Students may study the period in the following books: *Henry VII.* ("Twelve English Statesmen" Series), Brewer's *Henry VIII.*, 1509-1529; Bridgett's *Sir Thomas More*, Creighton's *Cardinal Wolsey* ("Twelve English Statesmen"), Merriman's *Thomas Cromwell*, Vol. I.; Froude's *History*; A. F. Pollard's *The Protector Somerset*; Martin Hume's *The Great Lord Burghley*; Julian Corbett's *Drake and the Tudor Navy*; P. Hume Brown's *The Life of John Knox*.

NOTE.—*The classes recognized as Honours Classes in the Group of* HISTORY *are the Honours Classes held by the Professor of History and by the Lecturer in Constitutional Law and History.*

II. CONSTITUTIONAL LAW AND HISTORY.

Lecturer.

1894. WILLIAM S. M'KECHNIE, M.A., LL.B., D.Phil.

ORDINARY CLASS.—This class now extends to a hundred meetings, and qualifies as a full course for graduation both for the ordinary M.A. and for Honours in History. (For subjects of study, text-books, etc., see under Faculty of Law, page 126.)

HONOURS CLASS.—In the winter session of 1903-4, in the event of any candidates for Honours in History presenting themselves, a course of fifty lectures (qualifying *pro tanto* for graduation with Honours) will be given on the early Constitutional History of England till 1295. The class text-book will be Stubbs, *Select Charters*. Before joining the class students are advised to read Medley, *Constitutional History*, and the following works are suggested for the use of students before or during the session:—Stubbs, *History*; Pollock and Maitland, *History of English Law*. The class meets on Mondays, Wednesdays, and Fridays at 1 P.M.

III. ROMAN LAW.

(See under Faculty of Law, page 124.)

II.—FACULTY OF SCIENCE.

The Faculty of Science was instituted by Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893, and embraces the classes of Mathematics, Natural Philosophy, Astronomy, Chemistry, Natural History (including Geology and Zoology), Botany, Anatomy, Physiology, Civil Engineering and Mechanics, and Naval Architecture. In this Faculty there are also classes in Electricity—Pure and Applied, Electrical Engineering, Mining, Organic Chemistry, and Metallurgical Chemistry.

I. MATHEMATICS.

(See under Faculty of Arts, page 81.)

II. NATURAL PHILOSOPHY.

(See under Faculty of Arts, page 82.)

III. ASTRONOMY.

The Professorship of Practical Astronomy was founded in the year 1760, conjointly with the office of Observer in the University of Glasgow, and is in the gift of the Crown. By Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893, it is now called Astronomy, and the Professor is a member of the Faculty of Science, the Chair having been transferred by the Universities Commission in 1893 from the Faculty of Arts to the newly instituted Faculty of Science.

Professors.

1760. Alex. Wilson, LL.D.
1784[1]. Patrick Wilson, LL.D.
1799. W. Meikleham, LL.D.
1803. James Cooper, D.D.
1836. John P. Nichol, LL.D.
1859. R. Grant, LL.D., F.R.S.
1893. Ludwig Becker, Ph.D., F.R.A.S.

An Observatory has always existed in connection with this Chair. The present Observatory is situated on an eminence in the vicinity of the University buildings.

Dr. Wilson, the second occupant of the Chair, bequeathed to the University the sum of one thousand pounds, upon the condition that the interest thereof should be applied to the purchase of instruments and books for the use of the Professor of Astronomy and the students attending his prelections.

The Trustees of the Bellahouston Bequest Fund recently made the generous grant of eleven hundred pounds towards the Chair of Astronomy.

The Professor of Astronomy who is chiefly occupied in directing the operations of the Observatory delivers a Course of Lectures on Astronomy at the University during the session, and gives expositions on instruments and methods of observation at the Observatory.

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[1] Dr. P. Wilson was assistant to his father from 5th June, 1782.

First Class.

Subjects : Elementary Mathematical Astronomy—The celestial sphere, description and theory of instruments, determination of latitude and time. Spherical Astronomy—Precession, Nutation, Aberration, Figure of the Earth, Deductions from Kepler's Laws.

The class meets at 3 P.M. on Mondays, Wednesdays, and during the first half of the session on Fridays. Practical Demonstrations at the Observatory.

Book recommended for general reading:—Charles A. Young, *Manual of Astronomy* (Ginn & Co., Boston and London, 1902).

Second Class.

Subject : Mechanics of the Heavens.

The students ought to be well prepared on the subjects of the Intermediate Honours Mathematical Class.

The class meets at 3 P.M. on Tuesdays and Thursdays, and during the second half of the session on Fridays.

Attendance on the two classes, either in the same session or in different sessions, counts as a full course for the Degree of M.A.; the first and second classes, which may be taken in one session, with practical work at the Observatory, are a full course for the Degree of B.Sc.

IV. CHEMISTRY.

(See under Faculty of Medicine, page 100.)

ORGANIC CHEMISTRY.

(See under Faculty of Medicine, page 101.)

METALLURGICAL CHEMISTRY.

This Lectureship was instituted by the University in 1899.

Lecturer.

William Carrick Anderson, M.A., D.Sc.

Two independent courses of lectures are given in each year, the first or "*A*" Course from October till December, and the second or "*B*" Course from April till June. Each class meets three days a week.

Class "*A*." The lectures deal with the chemical properties, preparation, and uses of fuels, solid, liquid, and gaseous; the composition of slags and refractory materials, and the methods employed for extraction of the principal industrial metals with special reference to the chemical principles involved.

Class "*B.*" The earlier part of this course treats of the elements of physical chemistry, and the principles of thermochemistry, including thermal measurements and calculations with reference to the use of fuels, are afterwards dealt with in fuller detail. The latter part is devoted to the chemistry of industrial metals and alloys.

Practical Courses.—The Chemical Department is equipped with crucible, muffle and tube furnaces heated by gas and electricity, as well as with the apparatus required for the micrographical examination of metals. Practical instruction in assaying and general metallurgical work is given during both Winter and Summer Sessions.

V. NATURAL HISTORY.

(See under Faculty of Medicine, page 99.)

VI. BOTANY.

(See under Faculty of Medicine, page 98.)

VII. ANATOMY.

(See under Faculty of Medicine, page 102.)

VIII. PHYSIOLOGY.

(See under Faculty of Medicine, page 104.)

IX. CIVIL ENGINEERING AND MECHANICS.

The Professorship of Civil Engineering and Mechanics was instituted by Queen Victoria in 1840, and is in the gift of the Crown. The emoluments of the Chair were increased in 1872 by a supplemental endowment[1] by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow; and more recently, in 1876, an Assistantship was founded by bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow.[2] The University Court instituted a lectureship on Electrical Engineering in 1898, and one on Engineering Drawing and Design in 1901.

Professors.

1840. Lewis D. B. Gordon, C.E.
1855. William J. Macquorn Rankine, C.E., LL.D.
1873. James Thomson, C.E., LL.D., D.Sc., F.R.S.
1889. **Archibald Barr**, D.Sc., M.Inst.C.E., M.I.Mech.E.

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[1] The annual income of a sum of £5000.

[2] The salary for the Young Assistantship thus founded is now £126.

Lecturer on Electrical Engineering.
James Blacklock Henderson, D.Sc.

Lecturer on Engineering Drawing and Design.
Henry Bamford, M.Sc., A.M.Inst.C.E.

Young Assistant.
William Alexander.

Demonstrators.
John S. Nicholson, B.Sc., and

The courses in Engineering extend throughout the winter session, that is, from 15th October till 24th March. They comprise Lectures on Engineering Principles and Practice, Instruction in Geometrical Drawing and in Engineering Drawing and Design, Laboratory Practice, and visits to Engineering Works and Manufactories.

These courses are designed primarily to suit students who intend to devote themselves to Civil, Mechanical, Electrical, or Mining Engineering; but the work of the classes will be found of direct practical utility to architects and to men who are engaged in any occupations connected with manufactures.

The work of the classes is not intended in any way to supersede the usual requirements of pupilage or apprenticeship in Engineering, but to enable the Engineer to gain such a knowledge of the principles underlying his profession or trade as he cannot acquire by only working in the office, in the field, or in the workshop. The classes may be attended either before or after pupilage or apprenticeship, or concurrently therewith.

Six Courses of Lectures are arranged for, five of which are delivered in each session.

CLASS I.—THE MATERIALS OF CONSTRUCTION AND THE ELEMENTS OF APPLIED MECHANICS.—Lectures: Mondays, Wednesdays, and Fridays, at 9 A.M. Tutorial and Exercise Meetings: Tuesdays and Thursdays, at 9 A.M.—Subjects:—Preparation, Properties and Uses of the Chief Constructive Materials, especially of Cast Iron, Wrought Iron and Steel, Brass and other Alloys, Timber, Building Stones, Cements and Concrete; Graphics, Steam, Gas, and Oil Engines, and other Prime Movers; and the more Elementary Principles of Mechanics in their application to problems connected with Engineering Structures and Machines.

CLASS II.—SURVEYING, LEVELLING, AND SETTING-OUT OF WORKS.—This class will not be held during the present session. It is held in alternate years with Class III., on Mondays, Wednesdays, and Fridays, at 9 A.M. Subjects:—Surveying with the Chain and with Angular Instruments; Telemetry; Levelling; the Optical and Mechanical Principles, Tests, and Adjustments of Surveying and Levelling Instruments; Setting-out of Works, especially Setting-out of Railways; Mensuration of Areas of Land and of Volumes in Earth Works; the Execution of Civil Engineering Works. The Lectures will treat for the most part of those portions of the subject which are not readily learned in ordinary field and office practice.

CLASS III.—PRIME MOVERS AND THE MECHANICS OF MACHINERY.—Mondays, Wednesdays, and Fridays at 9 A.M.—The Lectures treat of the Sources of Energy; Fuels; the Theory of Steam and Gas and other Heat Engines; the structural details of Boilers and Engines; the Mechanics of Machinery; the Elements of Machine Design; the Transmission of Power; and Friction and Lubrication in Machines. Attendance on this class should be preceded by attendance on Class I. in the case of students entering with no knowledge of Applied Mechanics.

CLASS IV.—HIGHER APPLIED MECHANICS AND HYDRAULICS.—Daily, except Saturday, at 10 A.M. The Lectures treat of the Strength and Elasticity of Materials, the Strength and Stiffness of Beams, Girders, Columns, Framed Structures, Shafts, etc.; Hydraulics and Hydraulic Appliances, including the Gauging of Water, the Flow of Water in Pipes, and the Principles of Water Wheels, Turbines, and Centrifugal Pumps.

ELECTRICAL ENGINEERING.—*Junior Course*—Mondays, Wednesdays, and Fridays at 8 A.M. Subjects:—Practical units of current, quantity, E.M.F. resistance, power, and energy; Ammeters, voltmeters, ohmmeters, wattmeters, and energy-meters; Winding of resistances. Cells and the calculation of E.M.Forces; Secondary cells and their chemical reactions; Electro-chemical processes. Magnetic properties of iron and steel and their measurement; the magnetic circuit; Hysteresis and hysteresis losses. Electro-magnetic induction and the production of E.M.F.; Development of the dynamo; Winding of field magnets and armatures. Conditions for sparkless commutation; characteristic curves; efficiency of dynamos and motors; methods of testing dynamos and motors. Modern direct current machinery; types of motors; motor starters and controllers; tramway, lift and crane controllers. Direct current distribution; Kelvin's law of economy. Alternating E.M. Forces and currents; relation between mean, maximum and effective values; rotating fields; measurement of alternating currents; E.M. Forces and power; power factors. Alternators; rotary converters; synchronous and induction motors; arc lamps.

Senior Course—Tuesdays, Thursdays, and Saturdays, at 8 A.M. Subjects:—Direct current motors series and shunt; accelerating torque; mechanical characteristic. Dynamo design; relation of size to output; proportioning of parts; choice and calculation of winding; theory of commutation; construction of commutators. Alternate current phenomena; single and polyphase currents; mathematical and graphical treatment of alternating current problems; armature reaction. The working of alternators singly and in parallel; methods of paralleling; armature reaction in polyphase machines and rotary converters; design of polyphase machines; design of transformers. Induction motors, single and polyphase; methods of starting; repulsion motors; compensated synchronous motors and generators. Characteristics of alternators and motors; testing of alternators; compounding of alternators. distribution of power and distribution losses.

ENGINEERING DRAWING AND DESIGN.—The drawing classroom is open daily, except Saturday, from 9 A.M. till 5 P.M. Each student will be required to attend six hours per week (at times to be arranged at the commencement of the session), and will be expected to devote extra time to the performance of work. The work of the classes will comprise Lectures and Practice in Civil and Mechanical Engineering Drawing; Lectures and Practice in Design of Structures, Descriptive Geometry, Graphical Statics, and the Kinematics of machinery, and the performance of graphical work and calculations in connection with the lecture courses.

ENGINEERING LABORATORIES.—The James Watt Engineering Laboratories, which have been erected and equipped at a total cost of about £40,000, are now complete. A separate description of the Laboratories will be published. The equipment includes appliances for calorimetric tests of fuels, and for experiments on the properties of steam; steam boilers, steam, gas, oil, and hot-air engines; a refrigerating plant; 100-ton and 10-ton testing machines arranged for tests in tension, compression, bending, and torsion, and fitted with autographic stress and strain recorders; cement testing appliances; apparatus for experiments on the flow of water through orifices and pipes, friction and lubrication of machines; and apparatus for other investigations bearing upon Engineering Science and Practice.

The Electrical Engineering Laboratory is equipped with continuous current dynamos and motors, with single and polyphase alternators and motors, and with testing appliances in connection with electric lighting and electrical transmission of power.

The Laboratories are open daily; the hours of attendance are arranged with the individual students.

For the purposes of Ordinance No. 23, Section IX. (see page 220), Class IV., together with Laboratory practice, counts as a whole course; any two of the other Lecture Classes, together with Laboratory practice, count as a whole course. Candidates taking the second option under Section IX., *i.e.* candidates for the Degree of B.Sc. on the side of Naval Architecture, are required to take Class IV. together with Laboratory practice.

Recommendation.—It is strongly recommended that students of Engineering should, if possible, get themselves engaged, for two or three summers within the period of their attendance in the University, in engineering or architectural service, in offices, or in workshops, or on works such as railways, water works, or harbour works in progress.

As to the Degrees of B.Sc. and D.Sc. in Engineering Science, see Index.

As to the Certificate of Proficiency in Engineering Science, see Index.

As to the Muir Bursaries, the Metcalfe Bursaries, the Dr. Strang Bursaries, the George Young Bursary, the Walker Prizes and the George Harvey Prize, and the James Watt Scholarship, in the Department of Civil Engineering and Mechanics, see Index.

X. MINING.

THEORY AND PRACTICE OF MINING.

On 26th March, 1902, Mr. James S. Dixon, Fairleigh, Bothwell, recognising the want of a means of teaching the higher branches of the Theory and Practice of Mining, and the desire for acquiring such knowledge displayed by many young men connected with mining, made an offer of £10,000 to found a Chair or Lectureship of Mining in the University of Glasgow. The University Court accepted the offer, and a Lectureship has accordingly been founded. The Lecturer is appointed by a special body consisting of (1) the members of the Court, (2) the President of the Mining Institute of Scotland, (3) His Majesty's Inspector of Mines for the Western District of Scotland, (4) His Majesty's Inspector of Mines for the Eastern District of Scotland, (5) the President of the Lanarkshire Coalmasters' Association, and (6) the Donor during his life or till his resignation. The appointing body has the power at the expiry of the first five years from the institution of the Lectureship, and at the expiry of every five years thereafter, to revise and alter the scope of the Lectureship and the duties of the Lecturer.

Lecturer.

1902. Charles Latham, M.Inst.M.E.

The courses in mining are held in the James Watt Engineering Laboraties, and extend throughout the winter session.

Mining Engineering.

Class I.—Mondays and Wednesdays at 4 p.m. Subjects :—Prospecting, Boring, Sinking, Explosives, Winding and Ventilation.

Class II.—Tuesdays and Thursdays at 4 p.m. Subjects :—Methods of Working, Haulage, Pumping, Lighting, Timbering, Coal Cutting Machinery, and Surface Arrangements.

Class III.—Thursdays at 5 p.m. Subjects :—Metalliferous Minerals and Mining.

As to the degree of B.Sc. in Mining Engineering, see Index.

Evening Classes.

For the benefit of those students who do not wish to take the degree, a similar course to the above will be given in the evening as follows : Class I., Mondays and Wednesdays at 6.30

P.M.; Class II., Tuesdays and Thursdays at 6.30 P.M.; Class III., Thursdays at 7.30 P.M.

MINE MANAGEMENT.

This course is intended for students who wish to qualify as mine managers under the Coal Mines Regulation Act, and extends over two years.

CLASS I.—Mondays at 7.30 P.M. Subjects:—Boring, Sinking, Explosives, Winding, and Ventilation.

CLASS II.—Wednesdays at 7.30 P.M. Subjects:—Methods of Working, Haulage, Pumping, Lighting, Timbering, Coal Cutting Machinery, and Surface Arrangements.

XI. NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

The John Elder Chair of Naval Architecture was founded by the University in 1883. An endowment of £12,500 was provided by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow. The Professor is appointed by the University Court.

Professors.

1883. Francis Elgar, LL.D. | 1886. Philip Jenkins.
1891. JOHN HARVARD BILES, LL.D.

The courses of the Professor comprise a Junior Course of Lectures and Examinations upon Naval Architecture and Marine Engine and Boiler Design, and a Senior Course of Lectures and Examinations upon Naval Architecture and Marine Engine Design; also a Junior and a Senior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design. The Junior Course of Lectures and Examinations may be taken in either the first or the second year of the regular curriculum, and the classes will meet on Mondays, Wednesdays, and Fridays at 12 noon, or at any other hour that may be found convenient. The classes of the Senior Course will be held on Mondays, Tuesdays, and Thursdays from 11 A.M. to 12 noon, or at any other hour that may be found convenient.

The Junior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design is expected to be taken by students in the first year of the regular curriculum; and the classes will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 5 P.M., or at any hour that may be found convenient. The classes of the Senior Course will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 5 P.M., or at any other hour that may be found convenient.

As to the Degree of B.Sc. on the side of Naval Architecture and Marine Engineering, see Index.

As to the Lloyd's Register Scholarship, the Elder Bursaries, and the Kirk Memorial Prize, see Index.

III.—FACULTY OF MEDICINE.

The Faculty of Medicine embraces the Classes of Botany, Natural History, Physics, Chemistry, Anatomy, Embryology, Physiology, Materia Medica, Pathology, Forensic Medicine, Surgery, Clinical Surgery, Practice of Medicine, Clinical Medicine, Midwifery, Insanity, Diseases of the Eye, Diseases of the Ear, Diseases of the Throat and Nose, Diseases of the Skin, and Diseases of Children.

ORDER OF STUDY RECOMMENDED.

It is advantageous that the Student should commence his studies in Summer. Candidates are advised not to go up for examination in Chemistry and Zoology till the Autumn before the Second Winter.

1ST SUMMER.—Physics and Botany.

1ST WINTER.—Chemistry, Junior Anatomy, Zoology. Practical Zoology may also be taken. Practical Chemistry in Laboratory may also be taken if desired.

2ND SUMMER.—Practical Anatomy, Embryology. Practical Chemistry, and also Practical Zoology, may be taken if not already attended.

2ND WINTER.—Senior Anatomy, Physiology and Practical Anatomy.

3RD SUMMER.—Practical Anatomy, Practical Physiology, Practical Pharmacy, Clinical Surgery and Hospital.

3RD WINTER.—Surgery, Materia Medica, Clinical Surgery, Hospital and Dispensary Practice.

4TH SUMMER.—Practical Pathology, Medical Jurisprudence and Public Health, Operative Surgery, Clinical Medicine and Hospital.

4TH WINTER.—Pathology, Practice of Medicine and Midwifery. Also Clinical Class and Hospital.

5TH SUMMER.—Insanity, Diseases of Women, the Skin, the Eye, the Ear, the Throat and Nose, Vaccination, Hospital, Fevers.

5TH WINTER.—Hospital, Midwifery Practice, and Specialities of Practice not previously attended to.

A. The subjects of the *First Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes:—

I. BOTANY.

The subject of Botany was from 1718 conjoined with Anatomy. The combination being found unsuitable, a separate Lectureship on Botany was instituted, and ultimately, in 1818, the Professorship was founded. The appointment is vested in the Crown. (See p. 182, as to Botanic Garden.)

Professors.

1818. Robert Graham, M.D.
1820. Sir W. J. Hooker, LL.D.
1841. John H. Balfour, M.D.
1845. G. A. Walker-Arnott, LL.D.
1868. Alexander Dickson, M.D.
1879. I. B. Balfour, M.D., D.Sc.
1885. FREDERICK O. BOWER, Sc.D., F.R.S.

Lectures are given at the University every Tuesday, Wednesday, Thursday, Friday, and Saturday at 8 A.M., during the summer session. On Saturdays, according as the season and the weather permit, either excursions are made for the study of plants in the field, or microscopic demonstrations are given in the Laboratory.

Demonstrations on fresh specimens are given in the Botanic Garden or at the University during the latter part of the session.

The Botanical Laboratory at the University is open daily from 9 A.M. to 4 P.M. from the end of April to the middle of July. Classes for elementary practical work in the Botanical Laboratory are formed during these months at hours, so far as practicable, to suit the convenience of students.

A course of Advanced Lectures, as well as a more extended course of Practical Instruction, designed for candidates for the Science Degree, or other more advanced students, is given in the Laboratory during the winter session. Notice of times of meeting of these classes will be given in due course.

The University Herbarium may be consulted by students on applying to the Professor.

Students in the Botanical Class may obtain, by applying to the Professor, specimens of plants from the Botanic Garden for private study.

For the "Dobbie Smith" Gold Medal, see under "Prizes."

II. NATURAL HISTORY.

This Professorship was founded by George III. in 1807. The Professor is appointed by the Crown. In 1876 the late Mrs. Honyman Gillespie of Torbanehill endowed a Lectureship in Geology, to be called the "Honyman Gillespie Lectureship," in memory of her husband, W. Honyman Gillespie, Esq.

Professors.

1807. Lockhart Muirhead, LL.D.
1829. Wm. Couper, M.D.
1857. Henry D. Rogers, LL.D.
1866. John Young, M.D.
1902. J. GRAHAM KERR, M.A.

Senior Assistant—Edward J. Bles, B.A., B.Sc.

Lectures on Zoology, including Comparative Morphology, are given daily at 9 A.M. throughout the Academical year.

The first 50 Lectures of the Course are introductory in their nature. In them an outline is given of the characters of the more important groups of the animal kingdom, special attention being devoted to such groups as are of general zoological interest, and to such as are, from their parasitic habits or otherwise, of special importance to the Student of Medicine. Details of the anatomy of the higher Vertebrates are not treated of.

In connection with this part of the Course, a Laboratory Class in Elementary Practical Zoology will be held daily from 11 to 1, and, if necessary, repeated in the afternoon from 3 to 5. In this class Students will examine for themselves examples of the main groups treated of in the systematic lectures.

During the latter half of the Winter and during the Summer Session Lectures of a less elementary character will be given suitable for candidates for degrees in Science. In these one or more of the main groups of the animal kingdom will be dealt with. Practical work will be arranged at suitable hours to illustrate these Lectures and to give Students an introduction to the methods of Laboratory technique.

For the Millport Marine Biological Station, see p. 183

III. PHYSICS.

(See under Natural Philosophy in Faculty of Arts, p. 85.)

IV. CHEMISTRY.

This Professorship was founded by George III. in 1817, previous to which time (from 1747) there were Lecturers on Chemistry appointed by the University. The Professor is appointed by the Crown.

Lecturers.

1747. William Cullen, M.D.	1769. William Irvine, M.D.
1756. Joseph Black, M.D.	1787. Thomas C. Hope, M.D.
1766. John Robison, LL.D.	1791. Robert Cleghorn, M.D.

Professors.

1818. Thomas Thomson, M.D.	1852. Thomas Anderson, M.D.

1874. John Ferguson, M.A., LL.D., F.S.A.

Assistants.

William C. Anderson, M.A., D.Sc.	Matthew A. Parker, B.Sc.

James Roberts, F.C.S.

Systematic Chemistry.—The Lectures are delivered daily at 10 a.m. during the winter session. They treat of the general principles of Chemical Philosophy and the preparation and properties of the Non-Metallic and the principal metallic elements and their compounds. The latter part of the course is devoted to the elements of Organic Chemistry.

Attendance on this course qualifies for Degrees in Arts and Medicine and for the First Examination in Science.

Tutorial Classes.—Students desiring to obtain a qualifying certificate for Degrees in connection with the systematic course are required to give attendance at one of the Tutorial Classes, each of which meets twice a week. The teaching in these classes is supplementary to that given in the systematic lecture course, and is given partly by means of oral examination and written exercises in Chemical Arithmetic.

Written examinations of the whole class are held at intervals during the session.

Higher Courses.—Short courses on Metallurgical, Physical and Organic Chemistry are given during the winter and summer sessions, and to meet the requirements of Ordinance No. 12, Section IX. (4) (p. 217), a higher course will be delivered as required. It will deal with the Rare Elements, Theories of Chemistry, and the History of Chemistry.

Chemical Laboratories.—The Laboratories are open daily (except Saturday) from 10 a.m. to 4 p.m. Junior students go through a course of inorganic preparations and qualitative analysis suitable for those proceeding to degrees in Medicine and Arts and to the First Examination in Science. Medical students are required to spend at least two and a half hours a day at practical work. Those intending to proceed to the the degree in Arts or to the first examination in Science are recommended to attend for 3-3½ hours per day during a half session or to take a full session course.

Senior students go through a course consisting of quantitative analysis including the analysis of gases, exercises in physical and electrochemistry, and organic analysis and preparations. One whole session (or two half sessions) of attendance at the laboratory, after completion of the qualifying course for the first B.Sc. Examination, is required of candidates proceeding to the Final Examination in Chemistry for B.Sc., but students are strongly advised to spend a further period before attempting the Examination.

For work to be professed by Candidates for Degree Examinations in Chemistry see p. 208.

Post-Graduate Study and Research.—Arrangements are made for graduates and others engaging in original investigation in Organic, Physical and Metallurgical Chemistry. Particulars regarding scholarships, fellowships and bursaries tenable in the chemical laboratories may be obtained from the Calendar, pp. 383, 384. Those intending to take advantage of the arrangements during next session should make timely application to the Professor.

Organic Chemistry.—Three courses of Lectures are given:—1. An Elementary Course during the latter part of the winter session. 2. An Advanced Course during the summer session. 3. An Elementary Course during the summer session. In the first course—which comprises about 25 lectures—the subject is treated as follows:—Introductory, Methods of Analysis, Deduction of Formulæ, Classification of Organic Compounds, and the Chemistry of the following classes of substances —Aliphatic hydrocarbons, halogen derivatives, alcohols, ethers, esters, aldehydes and ketones, acids, etc., and a few of the more common aromatic compounds.

In the second course—in which 35-40 lectures are given—the chemistry of the aliphatic compounds is summarised, and attention is given to points of interest which are not touched on in the first course. The chemistry of the carbo-cyclic and a few of the more important hetero-cyclic compounds is treated fully, and relations existing between physical properties and chemical constitution are considered.

The third course is specially designed for medical students, and is only held provided a sufficient number come forward. It consists of about 20 lectures—the subject being treated very much as in the first course.

Practical instruction is given in the Laboratory in the methods of preparation, analysis, etc., of organic compounds.

METALLURGICAL CHEMISTRY.

(See Faculty of Science, p. 89.)

B. The subjects of the *Second Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes :—

I. ANATOMY.

This Professorship, with which Botany was at first associated, was founded in 1718 by the Crown and University jointly. After 1818 the province of the Chair was restricted to Anatomy.

Professors.

1720. Thomas Brisbane, M.D.
1742. Robert Hamilton, M.D.
1756. Joseph Black, M.D.
1757. Thos. Hamilton, M.D
1781. William Hamilton, M.D.
1790. James Jeffray, M.D.
1848. Allen Thomson, M.D., LL.D., F.R.S.
1877. John Cleland, M.D., LL.D. (St. A. and Ed.), D.Sc., F.R.S

University Assisiant.

James F. Gemmill, M.A., M.D., C.M.

Superintending and Lecturing Demonstrator.

William K. Hutton, M.A., M.B., C.M.

Demonstrators.

Archibald N. M'Lellan, M.B., C.M.
William D. H. Stevenson, M.A.

In the WINTER SESSION Anatomical Instruction is conducted in the following courses, viz.:—

1. ELEMENTARY DESCRIPTIVE LECTURES.—This class meets on five days weekly from 1 to 2 o'clock. The Lectures comprehend a full systematic description of the Bones, Joints, Muscles and Muscular Organs, and a general view of the Nervous System and Viscera.

2. ADVANCED DESCRIPTIVE LECTURES AND DEMONSTRATIONS.—This class meets on six days weekly from 11 to 12 o'clock, viz., on five days for Lecture, and on Saturday for Microscopical Demonstrations. The course comprehends: 1st, Demonstrations of Regional or Topographical Anatomy, including the Distribution and Relations of the Blood-vessels and Nerves; 2nd, Histology and a Detailed Description of the Viscera, Brain and Organs of Sense.

3. PRACTICAL ANATOMY.—This class is under the superintendence of the Professor and Demonstrators. The dissecting room is open from 9 A.M. to 4.45 P.M. daily, except on Saturdays, when it is closed at mid-day.

Text-books.—Cleland and Mackay's *Human Anatomy*; Cleland and Mackay's *Directory for Dissection*. Also, Spalteholz, *Handatlas of Human Anatomy* will be found a valuable and convenient auxiliary.

In the SUMMER SESSION the rooms for Practical Anatomy are open from 8 A.M. to 3 P.M. daily.

EMBRYOLOGY.

A Lectureship on Embryology was instituted by the University Court in 1894, but the first Lecturer, Dr. John Yule Mackay, having resigned before the beginning of the second session, temporary arrangements were made for carrying on the work of the class in 1895 and 1896.

Lecturers.

1894. John Yule Mackay, M.D.
1897. JAMES F. GEMMILL, M.A., M.D.

The *Systematic Class* meets in the Anatomy Class-room at 11 A.M. on Mondays, Tuesdays, Thursdays, and Fridays of the summer session. The course deals with vertebrate, and specially with Human Development, a certain amount of General Embryology being also included in the earlier lectures.

A *Practical Class* in Embryology is also held in the Summer Session. The course includes:—

I. Instruction in the methods of Embryological research.

II. Practical Study of:—(*a*) Maturation, fertilisation, segmentation etc. (Echinoderm material most suitable). (*b*) The development of one or more of the following types,—(1) Cartilaginous fish, (2) Amphibian, (3) Chick. (*c*) Mammalian development with reference to the foetal membranes, placenta and uterus, especially in the human subject.

III. Such advanced lectures as may from time to time be necessary in order to illustrate the bearing of any part of the practical work on Comparative Embryology.

Competent workers will be given facilities for carrying out special researches.

The Laboratory will be open from 9 A.M. till 4 P.M. except on Saturdays when the hour of closing is 12 noon.

II. PHYSIOLOGY.

This Professorship was founded by Her Majesty, Queen Victoria, in the year 1839, under the name of Theory of Physic. It was subsequently known as Institutes of Medicine, and is now, in accordance with Ordinance No. 31 of date 5th June, 1893, designated Physiology.

Professors.

1839. Andrew Buchanan, M.D.
1876. John Gray M'Kendrick, M.D., LL.D., F.R.S., F.R.S.E., F.R.C.P.E.

Muirhead Demonstrator.

Walter Colquhoun, M.A., M.B., C.M.

Second Assistant.

John P. Duncan, B.Sc., M.B., Ch.B.

SYSTEMATIC LECTURES.

The Lectures of this course are delivered daily at 12 noon during the winter session. They are devoted to an exposition of the main principles and facts of the Physiology of Man.

1. *General Physiology*, which includes a description of the functions of the various tissues, and of the chemical reactions which occur in the living body.

2. *Special Physiology*, or the functions of organs and systems of organs. This division of the subject includes (1) nutrition, (2) animal movements, (3) innervation, and (4) reproduction.

Examinations are held during the session.

PRACTICAL PHYSIOLOGY.

During the *summer session* Practical Instruction is given in the Laboratory by the Professor, the Muirhead Demonstrator, and Assistants, to classes of not more than thirty-five students in each class, at such hour or hours as may be found convenient. The hours usually selected are 8 to 9 A.M. and 12 noon to 1 P.M. daily, except Saturday. This course includes :—(1) Instruction in the use of the microscope, and in the microscopical examination of the various tissues with the aid of modern methods of hardening, staining, cutting, and mounting preparations. (2) The analysis of the principal fluids of the body, with special reference to the physiological processes by which they are produced. Students will have the opportunity of acquiring information which cannot readily be communicated in systematic lectures.

ADVANCED CLASS OF PRACTICAL PHYSIOLOGY.

This Class is intended to meet the requirements of candidates for the Degree of B.Sc. It will meet during the winter session at a suitable hour, on two or three days weekly, and the course will comprise fifty meetings each of at least two hours duration. Students will be taught (*a*) the more advanced methods of Physiological Chemistry, (*b*) special methods in advanced Histology, and (*c*) the use of physiological apparatus, the experimental investigation of the properties of muscle and nerve, the physics of the circulation, and the physiology of the senses. This course is wholly practical, and is designed to supplement the instruction given in the ordinary class of Practical Physiology, and to lead the student into the higher departments of physiological science.

The Laboratory.

The Laboratory is open daily from 10 A.M. to 4 P.M., under the superintendence of the Professor, to whom application should be made by those who may wish to pursue original investigation. It is furnished with the most modern appliances both for research and for the illustration of Lectures on Physiology.

Text-books.

For the Systematic and Practical Classes—*Text-book of Physiology*, 2 vols., by Dr. M'Kendrick.

As to the Muirhead Demonstratorship of Physiology, see p. 139.

III. MATERIA MEDICA.

A Lectureship on this branch was founded by the College in 1766, and a Professorship created by the Crown in 1831.

Lecturers.

1766. William Irvine, M.D.	1788. Robert Cleghorn, M.D.
1787. Thomas C. Hope, M.D.	1791. Richard Millar, M.D.

Professors.

1831. Richard Millar, M.D.	1865. John B. Cowan, M.D.
1834. John Couper, M.D.	1880. Matthew Charteris, M.D.
1855. John A. Easton, M.D.	1897. **Ralph Stockman**, M.D.

In the courses of instruction and in the scheme of professional examinations prescribed by Ordinance No. 14, the subjects included in the province of this chair comprise the two branches of Materia Medica and Therapeutics. In the summer course of Practical Pharmacy, which it is advisable to take before the winter course, attendance at twenty-five meetings of the class is required. Instruction is given in compounding official preparations, in writing prescriptions, and in dispensing, supplemented by demonstrations of the more important substances in the British Pharmacopœia. The winter course is devoted to Pharmacology and Therapeutics, the official drugs of the British Pharmacopœia being systematically considered in relation to their actions and applications in disease. In addition, lectures are given on the therapeutical aspects of Dietetics, Mineral Waters and Baths, Climate, Electricity, Massage, etc.

Text-books.—The manuals on *Materia Medica and Therapeutics* by Dr. Hale White, Dr. Mitchell Bruce, Dr. Whitla, or Dr. Lauder Brunton; *Practice of Medicine*, by Dr. M. Charteris; *Dictionary of Treatment*, by Dr. Whitla. More advanced books are: *Therapeutics*, by Dr. H. C. Wood; *Text-book of Pharmacology and Therapeutics*, edited by Dr. Hale White; and *Text-book of Pharmacology*, by Dr. A. R. Cushny.

C. The subjects of the *Third Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes :—

I. PATHOLOGY.

This Chair was founded by Ordinance No. 29 of the Universities Commission (1889) of date 5th June, 1893. The patronage is vested in seven Curators, of whom four are nominated by the University Court and three by the Directors of the Western Infirmary. By agreement with the Western Infirmary, full accommodation and facilities for teaching are provided for the University in the Pathological Institute recently erected at the Western Infirmary. By mutual arrangement the Professor is the Pathologist to the Infirmary, and the whole material of that institution is available for teaching purposes.

Before the founding of the Chair, Pathology had been taught by Dr. Joseph Coats, who was appointed Lecturer in 1890, and who also held the office of Pathologist to the Western Infirmary.

Professors.

1894. Joseph Coats, M.D.
1899. Robert Muir, M.A., M.D.

First Assistant (with special reference to Bacteriology).

Alex. R. Ferguson, M.D., C.M.

Second Assistant.

James Walker, M.B.

Two courses are held, one of Pathology in winter, and one of Practical Pathology in summer. In the work of the classes the two Assistants take part, and they conduct tutorial classes during the winter session.

The course of Pathology consists of Systematic Lectures and Demonstrations. The Lectures (Monday, Wednesday, and Thursday) are devoted to an exposition of the fundamental facts and principles of Pathology. In the Demonstrations (Tuesday and Friday) the fresh material from the Infirmary and preparations from the Museum are used as the basis for an exposition of the subjects illustrated. The projection microscope and lantern are used at the lectures and demonstrations, and special microscopic demonstrations are given from time to time.

The class of Practical Pathology meets during the summer session four days a week from 3 to 5. The course of study embraces Pathological Anatomy and Histology, and Practical Bacteriology.

The fee for each course is £3 3s. Students who have had one of the courses may attend the Demonstrations on payment of £1 1s.

The Museum of the Western Infirmary is open to all Infirmary students, and a printed catalogue is provided. The post-mortem examinations, which are conducted from 10 A.M. onwards, are also open to the students. Each student during his curriculum must attend at least twenty post-mortems, and must produce evidence that he has received instruction in the methods of post-mortem examination.

Post-graduate or Laboratory Courses in Practical Pathology and Bacteriology may be held in October and March. These courses are open also to senior students. Particulars may be obtained from the Professor.

Text-books.—A Manual of Pathology by Dr. Joseph Coats; *Practical Pathology* by Dr. G. Sims Woodhead; and a *Manual of Bacteriology* by Drs. Muir and Ritchie.

The following works are also recommended: Cohnheim's *Lectures on General Pathology*, Thoma's *Handbook of General Pathology*, and Metchnikoff's *Comparative Pathology of Inflammation.*

II. FORENSIC MEDICINE.

This Professorship was created by the Crown in 1839.

Professors.

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.
1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.
1898. John Glaister, M.D., D.P.H. (Camb.), F.C.S., F.R.S.E.

This class will meet daily from 11 to 12 during the summer session.

The Lectures on Forensic Medicine will, as far as possible, elucidate the application of every branch of Medical Science to the purposes of the law.

In the department of Public Health special attention will be given to the subjects of Air, Ventilation and Heating, Water, Food, Meteorology, Injurious Trades, Vital Statistics, Sanitary Law, Disinfection, Disposal of Sewage and Refuse, and Sanitation in general.

During the session students will have an opportunity of visiting, along with the Professor or his assistant, the most important public institutions and works in the district dealing with Disposal of Sewage and Refuse, Disinfection, Ventilation, etc.

Demonstrations, macroscopic and microscopic, will be given frequently during the session, illustrating, as far as possible, the whole range of Forensic Medicine and Public Health.

Written and oral examinations (attendance on which is compulsory) will be held at intervals.

In addition, facilities will be given for studying Practical Toxicology in the Medico-Legal Laboratory at the University.

Text-books (for Class of Medical Jurisprudence and Public Health).—Guy and Ferrier, *Principles of Forensic Medicine*; Dixon Mann, *Manual of Medical Jurisprudence*; Hofmann, *Atlas of Legal Medicine* (English edition, 1898); Glaister, *Text-book of Forensic Medicine, Toxicology, and Public Health*, 1902; Glaister, *Manual of Public Health for Students, etc.*

PUBLIC HEALTH LABORATORY.—The Laboratory is under the personal supervision of Professor Glaister and his assistant, and is open at hours arranged to suit Classes, for practical instruction in the methods of analysis of air, water, soils, foods, and the detection of adulterations; and instruction in practical meteorology, sanitary appliances, and physics, in relation to public health.

Air.—Estimation of carbonic acid, by Pettenkofer's, Angus Smith's, and other methods; detection and examination of gaseous impurities; estimation of organic impurity by ammonia and Carnelly's process; microscopic examination of matters in suspension; estimation of humidity, dew-point, and tension of vapour.

Water.—Qualitative and quantitative analysis; microscopical examination of sediments; physical and biological examination; comparison and estimation of value of filtering media and filters; mineral and medicinal waters.

Sewage.—Effects of purification processes; analysis of raw sewage and sewage effluents.

Soils.—Chemical and physical examination.

Foods.—Analysis and detection of adulterants; microscopic examination of food-stuffs; physical, microscopical and chemical examination of milk; analysis of milk, cream, butter, cheese, and oils used as foods; microscopical examination and chemical analysis of starchy foods, sugars, tea, coffee. cocoa, pepper, etc.; examination of preserved foods and detection of their adulterations.

Disinfectants.—Their valuation and comparison; examination of pigments in articles of attire, wall-papers, and those used in trade.

Bacteriology.—Methods of investigation, cultivation, and transmission; preparation of culture media; bacteriological examination of air, water, foods, blood, earth, etc.; microphotographic processes.

Microscopy.—Examination of food substances; parasites—animal and vegetable; crystalline deposits; micro-organisms.

Meteorological Instruments.—Barometer, thermometers, different kinds; rain gauges; anemometers and manometers; hygrometers, and their different forms.

The Laboratory is furnished with all the necessary chemical apparatus, etc., required for analysis, and each student is furnished with a set of apparatus for personally doing the work.

There is a complete collection of model sanitary appliances, including traps, soil stacks, to illustrate "siphoning," etc.; soil-pipes; ventilators; meteorological instruments; and an abundant collection of drawings, diagrams, and illustrative tables.

The Laboratory also possesses a large collection of microscopic specimens illustrative of parasites—animal and vegetable, food characteristics, and bacteriology.

Visits will be made, as arranged, during the Session, to view and inspect modes of sewage disposal, and unhealthy trades, etc.

The Laboratory instruction is recognized for the Diplomas in Public Health of the Triple Scotch Colleges, of the English Colleges, and of the Universities of Cambridge and Oxford under the new regulations.

Text-books (for Public Health Laboratory). — Lehmann, *Methods of Practical Hygiene* (English edition), 2 vols.; Kenwood, *Public Health Laboratory Work* (second edition); Hewlett, *Manual of Bacteriology*, 1898; Muir and Ritchie, *Manual of Bacteriology*, 1897; Slater and Spitta, *Atlas of Bacteriology*, 1898.

N.B.—(*See under Faculty of Law, p.* 124.)

D. The subjects of the *Final Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes :—

I. SURGERY.

This Professorship was founded in 1815, and is in the gift of the Crown.

Professors.

1815. John Burns, M.D.
1850. James A. Lawrie, M.D.
1860. Joseph Lister, M.B., F.R.S.
1869. Sir George H. B. Macleod, M.D., LL.D., F.R.S.E.
1892. Sir William Macewen, M.D., LL.D., F.R.S., Hon. F.R.C.S.

The Professor delivers during winter a course consisting of systematic lectures, illustrated by diagrams, casts, and pathological preparations, and of frequent demonstrations, in many of which the electric projection microscope is used for demonstrating surgical pathological histology. There are three written examinations. The following is a general outline of the course :—Anaesthesia ; wounds and their varieties ; haemorrhage and its arrest ; the phenomena of destruction and repair of tissues ; inflammation ; surgical bacteriology ; infective processes and diseases dependent upon bacteria and their products ; neoplasms ; injuries, including fractures and dislocations ; Regional Surgery.

During summer Operative Surgery is conducted daily, and consists of descriptive instruction by the Professor in the principal operations, and the performance of recognised operations by the students under supervision.

In the course of Clinical Surgery which the Professor conducts both winter and summer at the Western Infirmary, as part of the regular Clinical Instruction given to University students, practical instruction is given in the methods of clinical observation, surgical diagnosis and treatment. The Professor also takes occasion, as far as the material is available, to draw the attention of the students to the points illustrative of the principles taught in the systematic course.

II. CLINICAL SURGERY.

This Professorship was founded by the University in May 1874. The Professor is appointed by the University Court.

Professors.

1874. George Buchanan, M.A., M.D., LL.D.
1900. SIR HECTOR C. CAMERON, M.D., C.M.

Assistant.

Alfred A. Young, M.A., M.B., C.M.

The Professor teaches Clinical Surgery by "Lectures and other instruction" on the cases of patients affected with injuries, diseases, etc., requiring Surgical treatment.

The class meets daily at 9 A.M., both in the summer and winter session, in the Western Infirmary—Wards XIII., and XIX.; and in the Overtoun Theatre.

III. PRACTICE OF MEDICINE.

This Professorship, created in 1637, but long suppressed for want of revenue, was revived by the College in 1712, and endowed by Queen Anne in the following year. It is in the gift of the Crown.

Professors.

1714. John Johnstoun, M.D.	1827. Charles Badham, M.D.
1751. William Cullen, M.D.	1841. William Thomson, M.D.
1756. Robert Hamilton, M.D.	1852. John M'Farlane, M.D.
1757. Joseph Black, M.D.	1862. Sir W. T. Gairdner, K.C.B., M.D., LL.D., F.R.S.
1766. Alex. Stevenson, M.D.	1900. THOMAS M'CALL ANDERSON, M.D.
1789. Thomas C. Hope, M.D.	
1796. Robert Freer, M.D.	

The course is directed to the exposition of the Healing Art in its more practical aspects, having regard to the immensely wide range of diseases usually assigned to the physician and the general practitioner, as opposed to the surgeon and the specialist. The general principles and doctrines which are available at the bedside of the sick are each year carefully and thoroughly considered in connection with such a number and variety of illustrative instances as may be expected to leave a lasting and vivid impression of the essentials of Diagnosis, Prognosis, and Treatment, in so far as these can be advantageously delivered in the form of lectures guided by a systematic plan, conveying not only the opinions of the Professor, but also references to the general history of opinion, and the steps by which the existing knowledge of disease has been built up. Thus, a broad and sufficient basis is obtained for conveying an insight into what may now be regarded as settled medical doctrine, and also, as regards points which cannot be so considered, suggestions as to the direction in which we may reasonably look for guidance in the future. But no attempt is made to give a complete synopsis annually of the details of practice in all departments; for this, the student is of necessity referred to one or other of the current text-books.

The Professor conducts at the Western Infirmary, both in winter and in summer, part of the regular Clinical Instruction given to the Medical Students of the University. Tutorial Instruction is carried out by the University Assistants twice a week, and three written examinations are held in the course of the winter session. Medals and certificates of distinction are determined upon the basis of these examinations.

A portrait-medal of Sir William T. Gairdner is awarded to the most distinguished student in the class of Practice of Medicine. The dies for this medal were presented to the University along with a Portrait of the Professor by his former students, on 28th January, 1893.

Text-books.—One of the following is recommended for general use:—Frederick Taylor's *Manual of the Practice of Medicine*, or Osler's *Principles and Practice of Medicine*; Hilton Fagge's *Principles and Practice of Medicine* is a larger work of great excellence, specially adapted for senior students. Finlayson's *Clinical Manual* is in very general use for hospital work, and Dr. Anderson's *Contributions to Clinical Medicine* may be consulted.

IV. CLINICAL MEDICINE.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

Professors.

1874. Thomas M'Call Anderson, M.D.
1900. Samson Gemmell, M.D.

Assistant.

The class meets five days a week during the winter and summer sessions, and three or four written examinations are held. On Mondays and Thursdays the Professor gives demonstrations of cases in the wards; and on Wednesdays there is a clinical lecture in the theatre on cases under observation.

The clinical tutors meet the class (in sections) on Tuesdays and Fridays for instruction in the investigation of cases and in the use of instruments and apparatus. A ward visit is made by the Professor every day at the close of the regular instruction.

V. MIDWIFERY.

This subject was originally taught as part of the course in Anatomy, but in 1790 the Faculty of the College appointed Mr. James Towers to be Lecturer in Midwifery, and in 1792 assigned him a salary out of the Walton Fund. In 1815 the Chair was founded by George III., and Mr. Towers became the first Professor. The Crown is the Patron.

Professors.

1815. James Towers, C.M.
1820. John Towers, C.M.
1833. Robert Lee, M.D.
1834. William Cummin, M.D.
1840. John M. Pagan, M.D.
1868. William Leishman, M.D.
1894. Murdoch Cameron, M.D.

The Lectures embrace the Theory and Practice of Midwifery and the Diseases of Children. The Professor was Physician to the University Lying-in Hospital and Dispensary, an institution which was many years ago established in the neighbourhood of the old College. The altered circumstances of the school having, however, rendered this situation unavailable for Clinical instruction, other arrangements have now been made by which the Managers of the Western Infirmary have placed a ward for the Diseases of Women under the charge of the Professor. Ample opportunity is afforded for Clinical instruction in Midwifery at the Glasgow Maternity Hospital, to which the Professor holds the appointment of Consulting Physician.

A course of lectures on the Diseases of Women is delivered in summer.

E. Candidates for the Degrees of Bachelor of Medicine and Bachelor of Surgery are required also to attend the following courses :—

I. INSANITY.

This Lectureship was instituted by the University in 1880. Great advantages are offered to students for the study of this subject, the Lecturer being Consulting Physician to the Royal Lunatic Asylum, Gartnavel.

Lecturer.

1880. David Yellowlees, M.D., LL.D.

A course of Lectures is given in the University at 12 noon on Wednesdays during the summer session, and Clinical Instruction at the Asylum, Gartnavel, at 10 a.m. on Saturdays.

For the Mackintosh Mental Science Bursary in connection with this class see "Bursaries."

II. OPHTHALMOLOGY.

The practical course of instruction in Ophthalmology must consist of not less than twenty meetings, of which six may be class-room lectures, and the others shall be for clinical instruction. Such courses are available in the Glasgow Eye Infirmary (174 Berkeley Street and 80 Charlotte Street), and in the Glasgow Ophthalmic Institution (126 West Regent Street). In the Berkeley Street branch of the Eye Infirmary attendance is given daily at 1 p.m. and students may attend twice a week the lectures and the clinique of any of the three surgeons. The same rule holds in the Charlotte Street branch. At the Ophthalmic Institution lectures are delivered during the summer session every Monday at 4 p.m., and practical instruction is given on Tuesday and Friday at 2 p.m. In the case of women students lectures are delivered in the summer session by Dr. A. Maitland Ramsay, in Queen Margaret College every Tuesday and Friday at 4 p.m., and practical instruction is given at the Ophthalmic Institution every Monday and Thursday at 2 p.m.

III. FEVERS.

The course of Clinical Instruction in Fevers must consist of at least ten meetings in a hospital for infectious diseases containing not less than fifty beds. Such instruction is given in the City of Glasgow Fever Hospital, Belvidere. Each student must, before commencing attendance at the Hospital, obtain at the office of Mr. James D. Borthwick, Treasurer, Police Department, 285 George Street, an admission card—Fee, £1 1s.

F. Candidates for the Degrees of Bachelor of Medicine and Bachelor of Surgery are also recommended to attend the following courses:—

I. DISEASES OF THE EAR.

This Lectureship was instituted by the University Court in 1895.

Lecturer.

1895. Thomas Barr, M.D.

Short courses on Diseases of the Ear are conducted in both winter and summer. They are of a practical character, and arrangements are made so that each student who takes the course may, in accordance with the recommendation of the Senate under Ordinance No. 14, Section vii., 10 b, attend at least ten meetings for practical instruction. At these meetings the students are taught how to examine and treat Ear Disease, while illustrative cases are regularly demonstrated. In connection with each course a certain number of lectures are delivered in the University on Mondays at 4 p.m. The practical work is carried on at the Glasgow Ear Hospital or Western Infirmary on days and hours to suit the convenience of students. As it is not considered desirable that there should be an elaborate or complete course of systematic lectures on this subject, it is understood that a suitable book on Diseases of the Ear should be studied by the student while attending the practical course. It will be arranged that those who are desirous of pursuing the subject further may receive more advanced practical instruction in a second course.

Prizes will be awarded to the most proficient students as tested by clinical examination.

Text-book.—Manual of Diseases of the Ear (3rd Edition, 1901), by Thomas Barr, M.D.

II. DISEASES OF THE THROAT AND NOSE.

This Lectureship was instituted by the University Court in 1895.

Lecturer.

1895. James Walker Downie, M.B., F.F.P. and S.G.

The course of instruction on Diseases of the Throat and Nose is clinical in character, and is conducted in conformity with the recommendation of the Senate under Ordinance No. 14, Section vii., Sub-section 10 b, according to which candidates for graduation in Medicine are recommended to attend a short practical course of ten meetings on this subject. To permit of the necessary sub-division of the class for purposes of practical instruction there is a winter and a summer course, each having about the same number of meetings.

At the beginning of each session, the class meets as a whole at the University on Thursdays at 4 P.M. There the methods of examining the throat and nose, and the apparatus necessary for this purpose, are described and explained: the appearance of the parts in health and as altered by diseases is described, as are also the means of treatment, etc.

The class is then divided into sections for practical instruction. These sectional meetings are held at the Western Infirmary (Throat and Nose Department)—one section on Tuesdays, another on Fridays, at 4 P.M. At these meetings each student is afforded every facility for examining the various patients for himself under the supervision of the Lecturer.

In the Lectures at the University fuller instruction than can be communicated in the presence of the patient regarding pathological conditions seen at the Infirmary is given, and these lectures are illustrated by casts, coloured and photographic diagrams, instruments, anatomical and pathological specimens. While regular attendance on the practical instruction at the Infirmary is necessary to obtain a certificate, all members of the class are strongly recommended to attend the meetings at the University.

Text-books.—Clinical Manual of Diseases of the Throat, by J. Walker Downie, M.B.; *A Handbook of Diseases of the Nose*, by James B. Ball, M.D.

III. DISEASES OF THE SKIN.

The course of instruction on Diseases of the Skin at the Hospital for Skin Diseases is of a thoroughly practical character, and is conducted by Professor M'Call Anderson during the summer session. Arrangements have been made to supply short practical courses in accordance with the recommendation of the Senate under Ordinance No. 14, Section VII., Sub-section 10. The course commences on Monday, 25th April, 1904.

IV. DISEASES OF CHILDREN.

Arrangements will be made for enabling students to carry out the recommendation of the Senate, that each candidate for Degrees in Medicine should attend a short practical course on this subject.

IV.—FACULTY OF LAW.

The Faculty of Law embraces the Chairs of Law and Conveyancing, and also the Chairs of Forensic Medicine and Political Economy. In this Faculty there are also Lectureships on Civil or Roman Law, Constitutional Law and History, Jurisprudence, Public International Law, International Private Law, and Mercantile Law.

For the information of students proposing to enter the legal profession, whether as Advocates or as Law Agents, it may be stated that by the regulations of the Faculty of Advocates, every intrant to the Faculty is required to produce evidence of being duly qualified (1) in General Scholarship, and (2) in Law. In General Scholarship the possession of any one of certain University degrees, including the degree of M.A. from a Scottish University, is deemed a sufficient qualification. If the intrant does not hold a qualifying degree he is required to undergo an examination in certain specified branches of General Scholarship, as to which information may be obtained on application to the Clerk of Intrants to the Faculty. On the expiration of a year after the intrant has been found qualified in General Scholarship, his examination in Law may be proceeded with, subject to these conditions: (1) That he shall not during the year before such examination have engaged in any trade, business, or profession, either on his own account, or as assistant to or in the employment of another; and (2) that he shall produce evidence of attendance, such as is required for admission to examination for a Law degree, in a class of Scots Law and a class of Conveyancing, in a Scottish University, and evidence of the like attendance in a class of (*a*) Civil Law, (*b*) Philosophy of Law and International Law, Public or Private, (*c*) Constitutional Law and History in a Scottish University, or such attendance in another University or School of Law as may seem to the Dean and his Council to be equivalent thereto, and (*d*) Medical Jurisprudence, in a University, or in a School recognised as qualifying for University Degrees. On the production by the intrant of evidence of his having attended the necessary classes (which he may attend in any order he thinks fit), he is examined on (1) Civil Law, (2) Philosophy of Law and International Law, Public or Private,

(3) Constitutional Law and History, (4) Medical Jurisprudence, (5) Scots Law, Civil and Criminal, including Procedure, (6) Conveyancing. Information as to the books prescribed may be obtained from the Clerk of Intrants. If, however, the intrant has obtained the degree of LL.B. from a Scottish University after examination in all the subjects above prescribed for examination in Law, and also produces evidence that he has passed an examination in Procedure, he is held qualified in General Scholarship and Law without examination or other evidence of qualification, subject to the conditions that during the year immediately before presenting his diploma to the Examiners, he shall not have been engaged in any trade, business, or profession, as above set forth, and that he shall have duly presented his petition for admission and appeared before the Examiners prior to the commencement of such year. If the intrant has obtained said degree of LL.B after passing examinations in one or more of the said subjects he is exempt from examination in these subjects. He must pass in at least two of the subjects at one time. The regulations regarding the "Public Examination," which all intrants, whether graduates or not, must undergo, require that the intrant shall write a Thesis on a Title of the Pandects assigned to him by the Dean, and shall defend it on its being impugned. The question as to the intrant's admission is then decided by the Faculty voting by ballot.

Admission to the profession of a Law Agent is regulated by the Law Agents Act, 1873, and by the Law Agents and Notaries Public Act, 1891, and relative Acts of Sederunt of the Court of Session, prescribing rules as to subjects of examination and certain conditions of admission. The former Act requires in general that every applicant for admission must have served an apprenticeship of five years with a practising law-agent or with a sheriff-clerk in office at the passing of the Act, which apprenticeship, if entered upon after the passing of the Act, must be served under indenture, recorded and intimated as the Act requires. In certain cases, however, an apprenticeship for three years is allowed as sufficient, the excepted cases including that of a person holding a degree in Law or in Arts of a University in Great Britain or Ireland granted after examination.

By an Act of Sederunt, dated 18th March, 1893, which came into operation in terms of an Act of Sederunt of 19th December, 1893, on 1st January, 1895 (but by a subsequent Act of Sederunt of 29th January, 1895, is not to take effect in case of candidates whose indenture is dated on or before 18th March, 1893, until 1st March, 1896), an Act of Sederunt of 20th December, 1873, and all amending provisions in subsequent Acts of Sederunt are repealed except as to anything that has been done in pursuance thereof. The Act of Sederunt of 18th March, 1893, institutes two examinations in General Knowledge, instead of the Entrance Examination and General Knowledge Examination required by the Act of Sederunt of 20th December, 1873, the first of which is to be taken before or within one year after the commencement of apprenticeship, and the second either immediately after the first examination or at any time within three years thereafter. The Act of Sederunt prescribes the subjects of these examinations and of the examination in Law. By the Act of Sederunt of 21st November, 1902, in any subject to which the certificates or passes apply a Higher or Lower Grade Leaving Certificate issued prior to 1st June, 1902, or a Leaving Certificate or an Intermediate Certificate issued subsequent to that date, or a Pass in either Higher or Lower Grade granted as a step towards a Leaving Certificate, exempts from the first examination in General Knowledge; and a Higher Grade Leaving Certificate issued prior to 1st June, 1902, or a Leaving Certificate issued subsequent to that date, so far as obtained by passing on the Higher Grade, or a Pass in the Higher Grade granted as a step towards a Leaving Certificate, exempts from the second examination. Higher or Lower Certificates of the Oxford and Cambridge Schools Examination Board afford similar exemptions to Higher or Lower Grade Leaving Certificates. Higher Standard Certificates in the Preliminary Examination for M.A. under Ordinance No. 11 exempt from both of these examinations, but an examination in Bookkeeping must be passed. A Lower Standard Certificate in the Preliminary Examination for M.A. under Ordinance No. 11 exempts from the first examination in General Knowledge in any subject to which that Certificate applies, and a Higher Standard Certificate exempts similarly from the second examination in General Knowledge. Certificates entitling to exemption from the first examination must be presented to the

Clerk of the Board of Examiners of Law Agents before or within one year after the commencement of apprenticeship, and the three years within which the second examination must be taken are reckoned as from the date of such presentation of the certificate. A candidate for admission as Law Agent is exempted from any examination in General Knowledge, if (*inter alia*) he hold a Degree of any University in the United Kingdom granted after examination. By Act of Sederunt of 12th July, 1893, a candidate does not require to undergo examination in General Knowledge if he has been admitted as apprentice under indenture, and passed the entrance examination prescribed under the Act of 20th December, 1873, prior to 18th March, 1893, and has attended classes in Arts in terms of the Act of 20th December, 1873, and has completed attendance in such classes prior to 1st November, 1895. Further, by the Act of Sederunt of 18th March, 1893, a candidate who holds the degree of LL.B. or B.L. of any Scottish University is exempted from any examination in Law, excepting only on Forms of Process, Civil and Criminal. Candidates who have passed the Entrance Examination under the previously existing rules are exempt from the first examination under this Act of Sederunt, and candidates who have passed the General Knowledge Examination, prescribed by the Act of Sederunt of 20th December, 1873, before 1st January, 1894, are exempted from further examination in General Knowledge, and candidates who have passed the examination in Law under the said Act of Sederunt are exempt from further examination in Law.

The following alterations were made by Act of Sederunt dated 11th July, 1899:—(1) The first examination in general knowledge shall be taken before the commencement of apprenticeship, and no person shall be admitted as apprentice under indenture to a Law Agent until he shall have passed the said first examination, provided that any candidate who has already entered on this apprenticeship, or who may become an apprentice before his Act comes into operation, may offer himself for such examination within one year subsequent to the commencement of his apprenticeship, and subject to all the conditions of Acts of Sederunt in force at the date hereof. (2) The second examination in general knowledge may be taken at any time after the candidate has passed the first examination. (3) A candidate who fails to pass the first or second examination may again offer himself for examination, and shall be re-examined in all the subjects, or such part thereof as the examiners may determine. It shall be in the power of the examiners to fix a time before which a candidate who has failed to pass any examination shall not present himself again for examination. (4) No candidate shall be examined in Law until he has passed the second examination in General Knowledge. (5) This Act shall come into operation upon 1st January, 1900, and thereupon all provisions of the Act of Sederunt anent the admission of Law Agents of 18th March, 1893, inconsistent herewith, shall be repealed, except as to anything that has been done in pursuance thereof.

For Regulations as to Graduation in Law, see Index.

LAW.

This Professorship is in the gift of the Crown. After being long in abeyance for want of revenue, it was revived by the College in 1712, and endowed by Queen Anne in the following year.

Professors.

1714. Wm. Forbes, Advocate.
1746. Wm. Cross, Advocate.
1750. Hercules Lindsay, LL.D.
1761. John Millar, Advocate.
1801. R. Davidson, Advocate.
1842. Allan A. Maconochie, Advocate.
1855. Geo. Skene, Advocate.
1867. Robert Berry, M.A., LL.D., Advocate.
1887. Alexander Moody Stuart, LL.D., Advocate.

Scots Law.—The course extends to about 100 Lectures, embracing as full a course of Scots Law in each session as the time will permit, and including, so far as practicable, Lectures on the following subjects:—Sources and Development of the Law of Scotland; the Law of Contracts and Obligations generally, their Constitution and Extinction, Legality and Illegality; the Law of Sale; Stoppage *in transitu*; Retention and Lien; Loan, Deposit; Pledge; Hiring, and the Law of Master and Servant; Law of Carriers and Affreightment; Mandate; Partnership; Bills of Exchange; Cautionary Obligations; Law of Heritage; Servitudes; Prescription as applicable to Heritage; Law of Landlord and Tenant; Succession in Heritage and Moveables, Testate and Intestate; Marriage and Divorce, and the Rights of Husband and Wife; Law of Parent and Child; Guardian and Ward; Actions and Evidence; Diligence and Bankruptcy; Criminal Law, etc.

The text-books recommended to Students are Bell's *Principles of the Law of Scotland* and Erskine's *Principles of the Law of Scotland* (late editions).

The class meets five days a week—viz., every day except Monday, from 8 to 9 A.M. At intervals throughout the session the hour is devoted to the ordinary class examinations, which are conducted in writing.

Three Prizes are given by the University for proficiency in the class examinations; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Conveyancing. Prizes are also given by the Faculty of Procurators, generally for distinction in a special written examination towards the end of the session.

CONVEYANCING.

This Chair was instituted by ordinance of the Universities Commission (1858) of date 15th June, 1861, which was approved by Her Majesty Queen Victoria in Council on 11th October, 1861. The right of appointment to the Chair is vested in the Dean and Council of the Faculty of Procurators, Glasgow.

Professors.

1862. Anderson Kirkwood, LL.D.
1867. Sir James Roberton, LL.D
1889. JAMES MOIR, LL.D., Member of the Faculty of Procurators, Glasgow.

The course extends to about 100 Lectures, and during the session there are both oral and written examinations. As full a course of Conveyancing is given each session as the time permits. The subjects treated will be selected from the following list, viz.: (1) Introductory and Preliminary Lectures. (2) The Feudal and Burgage System, the constitution of Feudal and Burgage Rights, and the transmission thereof by Deeds *inter vivos*, or by Judicial Acts. (3) Heritable Securities. (4) Leases. (5) Marriage Contracts, Bonds of Provision, Testamentary Deeds and Deeds of Entail. (6) The completion of Titles, in case of death, to Heritable and Moveable Estate.

The class meets every day, except Monday, from 8 to 9 A.M.

The text-books recommended are Duff's *Feudal Rights*, with Supplement; *Lectures on Conveyancing*, by Menzies; *Lectures on Conveyancing*, by A. M. Bell; and Craigie's *Statutes.*

Prizes are given for eminence in the class examinations during the session. Prizes are also given by the Faculty of Procurators for distinction in a written examination held towards the end of the session on some of the subjects of the course; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Scots Law.

FORENSIC MEDICINE.

This Professorship was created by the Crown in 1839.

Professors.

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.
1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.
1898. JOHN GLAISTER, M.D., D.P.H. (Camb.), F.C.S., F.R.S.E.

This course, qualifying for graduation in Law (B.L. and LL.B.), will be delivered during the winter session at 9 A.M., after the Christmas vacation.

Text-books.—Guy and Ferrier, *Principles of Forensic Medicine*; Dixon Mann, *Manual of Medical Jurisprudence*; Glaister, *Text-book of Forensic Medicine*, etc., 1902.

(See under Faculty of Medicine, p. 108.)

POLITICAL ECONOMY.

(See under Faculty of Arts, p. 79.)

CIVIL LAW.

The study of Civil Law in Glasgow is coeval with the establishment of the University. In the University Annals it is recorded that, in 1460, lectures on the Civil Law were delivered in the Chapter-House of the Friars Predicators by Master William of Levenax (Lennox). After being for a considerable period in abeyance, the study of the subject was revived in 1712. In the middle of the eighteenth century the lectures were for the first time delivered in English; up to that time the prelections were in Latin. For some years during last century the lectures were once more in abeyance, but in session 1873-74 a class was again formed, and was taught in alternate sessions by the Professor of Law. In 1894 the University Court, carrying out a recommendation of the Universities Commission (1876), instituted a separate Lectureship in the subject.

Lecturer.

1895. J. M. Irvine, LL.B., Advocate.

The course extends to eighty lectures. The first part of the course will deal with the Constitutional History of Rome and the history of the development of the law. This part is intended to serve as an introduction to the study of the special departments of the law. The latter part of the course will be devoted to a systematic exposition, in detail, of the various departments of the law, according to the order in which they are treated in Justinian's *Institutes*. The class meets four days a week during the winter session, from 5.30 to 6.30 P.M. Attendance at the class is required of all candidates for Degrees in Law (LL.B. and B.L.); it also qualifies for the Degree of M.A.

Honours in Economic Science.—The lectures in the class of Civil Law up to Christmas, together with about twelve additional lectures given after Christmas separately from the ordinary course on Civil Law, constitute a half course on the History of Civil Law qualifying for the Degree of M.A. with Honours in Economic Science.[1] The additional lectures will deal with the history of Civil Law after the time of Justinian and with the influence of the Civil Law in the development of modern law and existing institutions.

Text-books.—Institutes of Justinian; Eds., Moyle or Sandars. Reference is also frequently made to *Institutes of Gaius*; Eds., Poste or Muirhead.

History of Civil Law.—The text-books recommended for students taking the half course in History of Civil Law are Ortolan, *Histoire de la Législation Romaine* (English translation by Cutler); Taylor, *Constitutional History of Rome* (Lond 1899); Bury, *History of the Later Roman Empire* (Lond. 1889)

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[1] See fifth note on p. 196.

CONSTITUTIONAL LAW AND HISTORY.

This Lectureship was instituted by the University in 1878, and the class was taught in alternate years during the summer session, the course extending to forty lectures. In 1894 the University Court, to meet the requirements of the Ordinances for Graduation in Law, placed the Lectureship upon a new footing. The course was extended to eighty lectures, and the class was made a Winter Class, meeting every year. In April, 1900, arrangements were made for extending the course to a hundred meetings for Arts students, and the extended course was recognized as a full course in Arts, qualifying for graduation for the ordinary Degree of M.A., and also for the Degree of M.A. with Honours in History. Attendance on the first eighty lectures of the course is required of all candidates for the Degree of Bachelor of Laws (LL.B.). Attendance on the first fifty lectures of the course qualifies for the Degree of B.L., subject to the conditions laid down in Ordinance No. 40.

Lecturers.

1878. Charles S. Dickson, M.A., Advocate.
1878. Alex. Ure, LL.B., Advocate.
1889. Robert T. Younger, LL.B., Advocate.
1894. William S. M'Kechnie, LL.B., D.Phil.

Ordinary Class.—The course will be partly historical and partly analytical. The historical lectures will trace in outline the development of the Constitution from the Anglo-Saxon migrations to the present reign. The analytical lectures will treat (1) of the safeguards of the rights of individuals, and (2) of the separate parts of the Constitution and the distribution of power in the State.

The text-books recommended are those prescribed for the M.A., B.L., and LL.B. Degrees.

The hour for the meeting of the class is 4.30 p.m.

Honours Class.—(See under Faculty of Arts, p. 87.)

GENERAL OR COMPARATIVE JURISPRUDENCE.

This Lectureship was instituted by the University in 1893, under the title Philosophy of Law. The subject was at an early date treated as an integral part of the course of Moral

Philosophy, under the name of Natural Jurisprudence. From 1878 it was treated by the Lecturer on Public Law as introductory to that subject.

Lecturer.

1893. William Galbraith Miller, M.A., LL.B., Advocate.

The course is given on Mondays and Thursdays during the winter session. The lectures for 1903-4 will be mainly devoted to (1) abstract jurisprudence—the ideas of person, property, cause, etc.; (2) some topic of Comparative Jurisprudence, such as the arrangement of the French, Indian, and German codes; the Land laws of different countries; or some particular crime or legal institution; and (3) the metaphysic of Law. Other subjects will be treated tutorially on the basis of a text-book, or in written exercises which are prescribed. The same course under the name of Philosophy of Law may in a special case be reckoned as a half course for the Degree of M.A. by candidates for honours in Economic Science (see p. 196).

The class meets at 4.30 p.m. in the Faculty Hall, St. George's Place.

Text-books.—(See subjects for Degrees in Law.) Reference is constantly made to the ordinary text-books in the other Law Classes, and to the Law Reports and Statutes in ordinary collections.

THE LAW OF NATIONS, OR PUBLIC INTERNATIONAL LAW.

In 1878 the University instituted a Lectureship on Public Law. In 1894 the University Court, to meet the requirements of the ordinances for graduation in Law, created separate courses for International Private Law and for Jurisprudence.

Lecturer.

1878. William Galbraith Miller, M.A., LL.B., Advocate.

The course is given on Mondays and Thursdays during the winter session. The course for 1903-4 will be doctrinal, dealing principally with the subjects of Nationality, and the relations of States in time of Peace. Written exercises are prescribed regularly.

Students are expected to be acquainted with the elements of the Civil Law, and to have a general acquaintance with Modern European History. *Text-book.*—Hall's *International Law.*

The class meets at 5.30 P.M. in the Faculty Hall, St. George's Place.

INTERNATIONAL PRIVATE LAW.

From 1878 this subject was treated as part of the course of Public Law. In 1894 the University Court, to meet the requirements of the ordinances for graduation in Law, instituted a Lectureship on International Private Law.

Lecturer.

1894. WILLIAM GALBRAITH MILLER, M.A., LL.B., Advocate.

This course is given in the summer session. The lectures discuss the principal doctrines as developed in the decisions of the British Courts compared with the results of Continental Jurisprudence. The subjects comprise History, General Principles, Comity, Public Interest, Nationality and Domicil; and in different sessions some of the following in detail: (1) Marriage, Divorce, Guardianship, and Family Law; (2) Contract, Delict, and Mercantile Law, including Bankruptcy; (3) Succession and Trust Law, Conveyancing and Heritable Rights; (4) Copyright, Trademarks, etc.; (5) Procedure and Evidence; (6) Criminal Law and Extradition; the other subjects being sketched in outline. For purposes of comparison and illustration reference is made to the collections of foreign codes, and to the *Journal de droit international privé*, edited by M. Clunet, all of which will be found in the Library of the Faculty of Procurators. Students are expected to be familiar with the leading doctrines of the Civil Law and of Scots Law. The class meets at 5.30 P.M. in the Faculty Hall, St. George's Place.

Text-book.—Rattigan, *Private International Law.* Students are expected to study the Statutes referred to, and certain leading cases prescribed, of which useful collections will be found in Nelson's *Private International Law*, Campbell's *Ruling Cases* (Domicil and Conflict of Laws), Beale's *Cases on the Conflict of Laws.*

MERCANTILE LAW.

This Lectureship was instituted by the University in 1894.

Lecturers.

1894. James Mackenzie, Member of the Faculty of Procurators, Glasgow.
1900. William Shaw, Member of the Faculty of Procurators, Glasgow.

This course will extend to eighty lectures, and will embrace for the first half course the following subjects:—The Law of Contracts, including Retention, Pledge, the Factors Acts, Loan, Bankruptcy and Sequestration, Judicial Factors, Bills of Exchange, and Banking. The second half course will include the Law of Partnership, Joint Stock Companies; Maritime Law, including Affreightment, Lien, and Average; Marine, Fire, Life, and Accident Insurance, and the Law relating to Trade Marks and Patents. Attendance on the whole course may, subject to the conditions laid down in Ordinance No. 39, be reckoned as qualifying for the Degree of LL.B.; and attendance on forty lectures, constituting a half course, may, subject to the conditions laid down in Ordinance No. 40, be reckoned as qualifying for the Degree of B.L. The principal subjects in the first half course have been prepared with special reference to the requirements of students intending to follow the profession of Accountants or Bankers. The class meets at 5.30 P.M.

FACULTY OF THEOLOGY.

The Faculty of Theology embraces the four classes of Divinity, Hebrew and Semitic Languages, Ecclesiastical History, and Divinity and Biblical Criticism.

The following regulations are applicable to students preparing for the ministry of the Church of Scotland. Under the Act of General Assembly, 1883, consolidating the Acts presently in force in regard to the study of Divinity, all candidates for the ministry are required to attend at the Divinity Hall either three full and regular sessions, or two full and regular sessions and three partial sessions; and to give at least two full sessions of regular attendance on the classes of Church History, Hebrew, and Biblical Criticism.

The following conspectus shows the order in which the classes should be taken :

FIRST YEAR.

9 a.m.,	Mon., Wed., Fri.,	New Testament Greek.
10 a.m.,	daily,	Hebrew.
11 a.m.,	daily,	Church History.
12 noon,	daily,	Divinity.

SECOND YEAR.

9 a.m.,	daily,	Hebrew.
10 a.m.,	daily,	Biblical Criticism.
11 a.m.,	daily,	Divinity.
12 noon,	Tu., Wed., Th.,	Honours Hebrew.

THIRD YEAR.

9 a.m.,	Mon., Wed., Fri.,	New Testament Greek.
10 a.m.,	daily,	Biblical Criticism.
11 a.m.,	daily,	Divinity.
12 noon,	daily,	Church History.

Each student, in order to be enrolled *for the first year* of his attendance, must present to the Professor of Divinity, *first*, a certificate from the Presbytery within the bounds of which he usually resides, and by which he has been examined on his knowledge of the Holy Scriptures according to the authorized version, and of the Catechetical Standards of the Church ; and, *secondly*, a certificate signed by the Convener or Vice-Convener of one of the four Examining Committees appointed, under the Act of Assembly, 1872, to conduct the examination of students previous to their entering the Divinity Hall.[1] In order to be admitted to this examination he must, in accordance with the Act of Assembly, 1896, produce, in addition to the certificate from the Presbytery recommending him, either (*a*) the diploma of a Master of Arts of a Scottish University, or the diploma of a Bachelor of Arts after an undergraduate course at any British or Irish University, or at any Colonial University at which the course is equivalent to that of a Scottish University, and which shall be approved by the General Assembly on a report from the Committee on the admission of ministers and the status of students of Divinity, or evidence that he has passed the examinations for, and is entitled to receive, such diploma of Master or Bachelor of Arts; or (*b*) evidence that he has passed the Preliminary Examination required of those proceeding to the Degree of Master of Arts in a Scottish University, or such examination as the University authorities recognize as equivalent thereto, and that he has attended some one of the courses required[1] for that degree, and has not only attended the classes of the course, but has duly performed the work of each of them. All students—graduates as well as non-graduates—will be examined in New Testament Greek, and those whose certificates in their progress to a degree do not cover Greek, Latin, Moral Philosophy, and Hebrew will, in addition, be examined in any or all of those subjects not included. Students who began their course before 1897 will, if they intimate a desire to this effect, be examined in the subjects enumerated in the note at the foot of page 130.

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[1] The following are the subjects of examination for October, 1903:—LATIN—Livy, Book XXIV. ; Horace, *Odes*, Book III. GREEK—Xenophon, *Memorabilia*, Book III. *St. John's Gospel.* HEBREW—The Grammar—Davidson's *Hebrew Grammar*, Sections 1—30. Genesis, Chapters I. and II., with grammatical questions limited to the sections in the Grammar prescribed. MATHEMATICS—Euclid, Books I., II., and III. Algebra to Quadratic Equations. NATURAL PHILOSOPHY—Deschanel, *Physics*, Part II. LOGIC—Jevons, *Elementary Lessons in Logic.* MORAL PHILOSOPHY—Muirhead, *Elements of Ethics* (University Extension Manual). ENGLISH LITERATURE—Morley's *First Sketch*, Chapter XIII. (In the Reign of Victoria); Kingsley, *Hypatia* ; Tennyson, *In Memoriam.* The examination at Glasgow will take place at the University on 7th and 8th October 1903, at 10 A.M. each day. Forms of application will be supplied by the Convener the Rev. Dr. Watt, 7 Lansdowne Crescent, Glasgow.

The student, in order to his enrolment *for each subsequent session* of his course, is required to present to the Professor of Divinity a certificate from the Presbytery within whose bounds he chiefly resides, of his having been examined by them on the progress made by him in his studies, and of their satisfaction with the same, as well as a certificate of his good moral character from the minister of his parish, or, during a vacancy in the parish, from the moderator of the kirk-session.

At the close of each session every student is required to take with him to the Presbytery certificates from the several Professors, under whom he has studied, of his good conduct and proficiency.

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[1] Any student who has gone through a curriculum in Arts in accordance with the provisions of Ordinance No. 11, but who has not graduated, may on application obtain, at the end of his course, a certificate to that effect at the Matriculation Office on production of his Preliminary Examination Certificate and the necessary Class-tickets duly signed.

By Act VII. of the General Assembly, 1894, it is enacted—that "Candidates for licence who have finished a regular course of study in Theology shall be examined as soon as it can conveniently be done after the close of the Divinity session by one or other of the Examining Committees constituted by Act IX., Assembly 1872." "The following shall be the heads of subjects of examination:—(i.) Apologetics, including Natural Theology; (ii.) Church History; (iii.) Old Testament Introduction and Exegesis; (iv.) New Testament Introduction and Exegesis; (v.) Christian Doctrine." "Students who have passed for the Degree of B.D., and who satisfy the Committee that they have done so, shall be exempted from examination in the subjects covered by the Degree of B.D." The Exit Examination for 1904 will be held at the University on 27th and 28th April. For information as to the special subjects of examination apply to the Convener of the Board, the Rev. Dr. Watt, 7 Lansdowne Crescent, Glasgow.

Students are required to study the art of public reading and speaking under some competent teacher approved by the Faculty of Theology,[1] during at least one hour a week in each of two sessions, the attendance extending in every case over at least sixteen weeks of the session, and to produce, before being taken on trials, due evidence of such attendance.

By Act IX. of the General Assembly, 1895, it is enacted—"that every student before being taken on trial for licence shall produce evidence of having regularly attended two courses of the Pastoral Lectures provided by the Home Mission Committee."

Each student is required during his curriculum to deliver *six* discourses—viz., an EXEGESIS in Latin on some controverted head in Divinity, a HOMILY in English, a CRITICAL EXERCISE on some portion of the original text of the Old Testament, an EXERCISE and ADDITION on some portion of the original text of the New Testament, a LECTURE on some portion of Scripture, and a POPULAR SERMON, with such other exercises as the

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[1] For the purposes of the Act of Assembly, and to qualify for the competition for the Dowanhill Prizes, the following teachers are recognised:—Mr. Thomas Harrower, 282 Bath Street; Mr. William S. Vallance, 291 Sauchiehall Street; Mr. John Forsyth, 20 Rupert Street; Mr. David B. Johnstone, A.Mus., 16 Burnbank Terrace; Mr. William Robertson, 487 Sauchiehall Street; Mr. Charles Aitken, Christian Institute, Bothwell Street; and Mr. J. Bruce Alston, 207 Bath Street.

Professors may think fit to prescribe. No student can be taken on trials for licence by any Presbytery until he has produced, along with class certificates from the Professors of Church History, Hebrew, and Biblical Criticism, a certificate from the Professor of Divinity that the discourses so prescribed have been sustained.

The Faculty of Theology have adopted the following regulations as to the delivery of these discourses:—(1) That the Homily shall be given in to the Professor of Church History at such time as he shall appoint in the *first* session of the student's course; (2) that the Latin Exegesis shall be given in to the Professor of Divinity, and the Lecture to the Professor of Biblical Criticism, in the *second* year of the student's course, at such times as shall be appointed by these Professors respectively; and (3) that the Popular Sermon shall be given in to the Professor of Divinity, the Hebrew Critical Exercise to the Professor of Oriental Languages, and the Exercise and Addition to the Professor of Biblical Criticism, in the *third* session of the course, at such times as shall be appointed by the several Professors. The subjects of the Discourses will be prescribed by the Professors to whom they are severally to be given in.

DIVINITY.

This Professorship was founded in 1640, and the foundation ratified in Parliament. The Professor is appointed by the University Court.

Professors.

1640-50. David Dickson.
1642-61. Robert Baillie.
1653. John Young.
1669. Gilbert Burnet, D.D.
1674. David Liddell.
1682. Alexander Ross, D.D.
1688. James Wemyss, D.D.
1692. James Wodrow.
1708. John Simson.
1740. Michael Potter.
1744. William Leechman, D.D.
1761. Robert Trail, D.D.
1775. James Baillie, D.D.
1778. William Wight, D.D.
1782. Robert Findlay, D.D.
1814. Stevenson Macgill, D.D.
1840. Alexander Hill, D.D.
1862. John Caird, D.D.
1873. William Purdie Dickson, D.D., LL.D.
1895. WILLIAM HASTIE, D.D.

The course of Theology extends over three sessions.

The class meets on five days of the week, in two divisions, the Senior at 11 A.M. and the Junior at 12 o'clock.

The subjects treated in the Lectures during the three sessions are—(1) Theology as a Science (Theological Introduction and Encyclopaedia); (2) Philosophy of Religion; (3) Apologetics; (4) The Comparative History of Religions; (5) Biblical Theology; (6) Critical History of Christian Doctrines; (7) Systematic Theology (Dogmatics and Ethics). Essays and Discourses are prescribed to the students. Examinations on the studies of the class will be held at intervals during the session.

PASTORAL TRAINING.—By a recent arrangement six Lectures on this subject will be given by a Lecturer appointed by the General Assembly.

HEBREW AND SEMITIC LANGUAGES.

This Professorship was founded by Queen Anne, 1709, under the title Oriental Languages. It is now designated Hebrew and Semitic Languages, in accordance with Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893. The Professor is appointed by the University Court, and is a member not only of the Faculty of Divinity, but also, since 1893, of the Faculty of Arts.

Professors.

1709. Charles Morthland.
1745. Alexander Dunlop, M.A.
1751. William Rouet.
1753. George Muirhead.
1755. John Anderson, M.A.
1757. James Buchanan, M.A.
1761. Robert Trail, D.D.
1761. Patrick Cumin, LL.D.
1820.[1] Gavin Gibb, D.D.
1831. William Fleming, D.D.
1839. George Grey, D.D.
1850. Duncan H. Weir, D.D.
1877. JAMES ROBERTSON, D.D.

By Ordinance No. 11 of the Universities Commission (1889) "Hebrew" and "Arabic or Syriac" are now included among the departments of study for graduation in Arts, and "Semitic Languages" among those for graduation with Honours.

The existing regulations of the Church of Scotland require all students of Divinity to give attendance on Hebrew for two sessions. The following are the arrangements for session 1903-4 :—

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[1] Dr. Gibb was assistant and successor to Dr. Cumin from 10th October, 1814.

I.—*Junior Class* (*Hebrew*), five days in the week at 10 A.M. (1) Davidson's *Introductory Hebrew Grammar*, with the Exercises ; (2) Readings from the easier books of Scripture; (3) Lectures on Hebrew Archaeology.

II.—*Senior Class* (*Hebrew*), five days in the week at 9 A.M. (1) Readings in the Hebrew Scriptures, particularly in the books prescribed for degrees of M.A. and B.D. ; (2) Exercises in Unpointed Text and Translations from English ; (3) Study of the Syntax and the Accents ; (4) Revisal and extended study of Grammar ; (5) Lectures on History and Introduction. All students enrolled in this class have the option of attending also the Honours Class, and are expected to do so at least two hours a week.

The Senior Hebrew is appointed as the qualifying class for graduation in Arts. Before attending the class for this purpose, students are required by the Ordinance No. 11, sect. IV., 3, to pass a preliminary examination in Hebrew " on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination." Students presenting themselves for this examination will be expected to know as much as is implied in the work of the Junior Hebrew Class, and will be examined in grammar, and in translation both from Hebrew into English and from English into Hebrew.

III.—*Honours Class* (*Hebrew*) : Tuesday, Wednesday, and Thursday, at 12 noon. Lectures on the History and Literature of the Hebrews ; Prelections and Expositions of some of the books prescribed for the degree examinations ; Readings in post-biblical Hebrew. Written exercises in Composition. History and comparison of the Semitic Languages.

IV.—For *Arabic Classes* see below.

A class for *Syriac* will also be formed, if students offer.

ARABIC LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University Court in 1902.

Lecturer—THOMAS H. WEIR, B.D.

I.—An Elementary Class meets three days a week in winter and daily in summer at any hour which may be found suitable. The work includes study of the grammar with progressive written exercises, and translation from and into Arabic. Text-book: Socin's *Arabic Grammar*. If sufficient students offer, a special class will be formed for modern and conversational Arabic.

II. *Ordinary Class.*—This class qualifies for graduation in Arts, and may be taken either in one full course of one hundred meetings, or in two half courses, the second half being a continuation of the first. The subjects of study comprise Grammar and Syntax, selected surahs of the Koran, selections from classical historians and poets, and history of the Arabs and their literature. Text-books: Nallino's *Chrestomathia Qorani Arabica*; Brünnow's *Chrestomathie*; Noeldeke's *Delectus Veterum Carminum Arabicorum*; Sale's *Koran.*

III. *Honours Class.*—This class is intended for those who wish to graduate with honours in Semitic Languages. The subjects of study will be the Koran with commentary, the *Makamat* of Hariri, *Arabic Grammar*, selections from the early poets. Text-books: Baidawi's *Commentary*, Hariri's *Makamat*, Noeldeke's *Delectus*, *Al Fakhri* (Derenbourg's Edition), Wright's *Arabic Grammar.*

ECCLESIASTICAL HISTORY.

The Professorship of Ecclesiastical History was founded by George I., in the year 1716, but no appointment was made to the Chair till the year 1720. The Professor is appointed by the Crown.

Professors.

1721. William Anderson.
1752. William Rouet.
1762. William Wight, D.D.
1778. Hugh M'Leod, D.D.
1809[1]. William M'Turk, D.D.
1841. Jas. Seaton Reid, D.D.
1851. Thos. T. Jackson, D.D.
1874. William Lee, D.D.
1886. Robert Herbert Story, D.D., LL.D.
1898. JAMES COOPER, D.D.

The course extends over two sessions, and embraces two series of lectures as well as written examinations and essays. The

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[1] Dr. M'Turk was assistant and successor to Dr. M'Leod from 6th March, 1797

Junior and Senior Classes meet at separate hours, the Junior from 11 to 12 o'clock, the Senior from 12 to 1 o'clock.

The subjects treated in the Lectures during the two sessions will be:

I. JUNIOR DIVISION.—The History of the Church Catholic from the Day of Pentecost to the close of the Fourth General Council. Books recommended — Kurtz, *Church History*; Moeller, *History of the Christian Church*, A.D. 1–600; Eusebius, *Ecclesiastical History* (translated by M'Giffert); Ramsay, *The Church in the Roman Empire, before A.D. 170*, and *S. Paul the Traveller and the Roman Citizen*; Pullan, *History of Early Christianity*; Rainy, *The Ancient Catholic Church*; Kelly, *A History of the Church of Christ*; Bright, *The Age of the Fathers*; Hefele, *History of the Church Councils*; Du Bose, *The Ecumenical Councils*; Gibbon; The Teaching of the Twelve; The Apostolic Fathers.

II. SENIOR DIVISION.—(1) The History of the Church of Scotland; (2) The History of the Church of England; (3) Some Important Epochs in the History of the Church.

Books recommended—Grub, Cunningham, or Stephen, on the Ecclesiastical History of Scotland; Skene's *Celtic Scotland*; Macgregor's *Saint Columba*; John Knox, *History of the Reformation in Scotland*; Spottiswoode; Wodrow; M'Crie, *Knox*; Hume Brown, *History of Scotland* and *John Knox*; Andrew Lang's *History of Scotland*; W. L. Mathieson, *Politics and Religion in Scotland*, 1550-1695; Bede's *Ecclesiastical History of England*; Wakeman's *History of the Church of England*; *A History of the English Church*, edited by Stephens and Hunt; Dixon, *History of the Church of England*.

The following subjects have been prescribed for Essays to be written in the summers of 1903 and 1904: Holy Baptism in the Primitive Church (the Day of Pentecost till A.D. 400); The Conversion of Armenia; Presbyter and Bishop in the Church of Alexandria (Ante-Nicene period); Paul of Samosata and early Adoptionism; The Hymns of S. Columba, and Ancient or Mediaeval Hymns celebrating that Saint, or SS. Ninian and Kentigern (Metrical Translations); The Ecclesiology and Ecclesiastical History of any Parish or District in Scotland in which the Student may be resident. Marks, up to 100, according to merit, will be assigned (Session 1904-5) to the writers of one of these Essays.

DIVINITY AND BIBLICAL CRITICISM.

This Professorship was founded by ordinance of the Universities Commission (1858) of date 25th November, 1861. The Professor is appointed by the Crown.

Professors.

1863. William P. Dickson, D.D.
1873. William Stewart, D.D.

This class will meet on five days of the week at 10 A.M.

The course of lectures is arranged to extend over two sessions ; and the class should accordingly be attended in two *consecutive* years.

The lectures in 1903-4 will treat of the principles of Textual Criticism, and of some portions of New Testament Introduction.

The practical application of the principles of Criticism and Hermeneutics will be illustrated in Exegetical Lectures, and by the reading of portions of the Greek New Testament.

Essays on subjects suggested by the work of the class are prescribed at intervals during the session, and the progress of the students is further tested by examinations, partly oral and partly written.

Class of New Testament Greek.—This tutorial class is intended for those who are preparing to pass the examination on the *New Testament in Greek* previous to entering the Divinity Hall, and for those who, with a view to the Exit Examination at the close of the Divinity course, desire to extend their knowledge of New Testament Greek. In the Exit Examination all students, both Bachelors of Divinity and others, are required to show proficiency in reading the New Testament in Greek *ad aperturam.* The Class will meet on three days of the week, viz., Monday, Wednesday, and Friday at 9 A.M. The hour has been fixed to suit the convenience of Students in the first and the third year of the Divinity course.

IV.—ENDOWED DEMONSTRATORSHIPS, ETC.

THE ARNOTT AND THOMSON DEMONSTRATORSHIP IN EXPERIMENTAL PHYSICS.

This Demonstratorship was founded in 1875 by the liberality of Sir William Thomson and Mrs. Arnott, widow of Dr. Neil Arnott, founder of the Arnott Prizes, who invested respectively £2,000 and £1,000 for the purpose of encouraging the study of Experimental Physics in the University of Glasgow. The Demonstratorship is in connection with the Physical Laboratory of the University. The holder is appointed annually by the Professor of Natural Philosophy, subject to the approval of the University Court, and his duties are to perform, and direct in the performance of, experimental researches in the Physical Laboratory, in connection with, and under the direction of, the Professor of Natural Philosophy, to give practical laboratory courses suitable for Medical and Engineering students, and to take part in the teaching of the Natural Philosophy Class, if required by the Professor, and in such way and at such times as may be appointed by the Senatus Academicus of the University.

Demonstrators.

1875. James Thomson Bottomley, M.A., D.Sc., F.R.S.
1899. James W. Peck, M.A.
1903. JAMES MUIR, D.Sc.

THE MUIRHEAD DEMONSTRATORSHIP OF PHYSIOLOGY.

In January, 1877, the late Dr. Henry Muirhead of Longdales, Bothwell Parish, and afterwards of Cambuslang, presented to the University the sum of £2,100, and in November, 1879, a further sum of £400, to endow a Demonstratorship of Physiology in connection with the Chair of Institutes of Medicine—the main object being the promotion of medical science by the training of young men of suitable capacity to become teachers and investigators of Physiology. The regulations with reference to the appointment are as follows:—

1. That the title of the appointment be "The Muirhead Demonstrator of Physiology."

2. That the holder of the office shall act as an assistant to the Professor of Institutes of Medicine in teaching the classes of Systematic and Practical Physiology and in original investigation.

3. That he shall also be expected and encouraged to engage in independent scientific investigation under the direction of the Professor.

4. That he will not be entitled to conduct any class on his own account without the consent of the Professor.

5. That the incumbent will be expected to devote his entire time to the duties of the appointment.

6. That the appointment be made annually by the Senatus Academicus, with the consent of the University Court, on the recommendation of the Professor of the Institutes of Medicine, who shall furnish evidence to the Senatus of the suitability of the person recommended by him.

Present Demonstrator.

WALTER COLQUHOUN, M.A., M.B., C.M.

THE WILLIAM BAXTER DEMONSTRATORSHIP IN GEOLOGY.

This Demonstratorship was founded by the Trust Disposition and Settlement of Mr. William Baxter, Hillhead, Glasgow, who died on 20th November, 1888, and bequeathed to the Senate the sum of £2,500, free of legacy duty, the annual income of which, less the cost of management, he directed should be paid half-yearly to the Demonstrator on the joint certificate of the Clerk of Senate and the teacher of Geology for the time being. The Senate are the patrons of the Demonstratorship.

The following Regulations, drawn in terms of the Founder's will, were adopted by the Senate on 28th February, 1889:—

1. The Demonstratorship shall be held for three years, and shall be open to the candidate who in the three years intervening between each appointment shall have passed the Degree of B.Sc. with Honours, or, in the event of several candidates obtaining Honours, to the candidate whose aggregate marks for the whole subjects of the said degree are the highest; but in the event of no candidate attaining to Honours, the Senate may, if they see fit, award the Demonstratorship to the candidate who shall stand highest in the list, provided his average of marks over all the said subjects is not less than 70 per cent., but any candidate who fails to obtain at least 70 per cent. of marks in the Department of Geology shall *eo ipso* be disqualified to hold the Demonstratorship.

2. The three years' tenure of office shall be subject to the

condition that the incumbent discharges the duties of the office to the satisfaction of the Senate, who have power "to deprive any Demonstrator of his stipend, or a part thereof, should they at any time become dissatisfied with his conduct or his ability to carry out the duties of his office, or with the character of his lectures, or for any other reason they may consider sufficient," the Demonstrator having the right of appeal to the University Court in the event of such deprivation.

3. The duties of the Demonstrator shall be :—

(1) To deliver two courses of lectures—twenty in the winter, twenty in the summer session—(*a*) on Mineralogy and Petrology, or (*b*) on Palæontology, or (*c*) on Physical Geography. These lectures to be accompanied by Demonstrations on specimens selected from the Hunterian collections with the consent of the Keeper.

(2) To give Field Demonstrations of Geology and Petrology, under the direction of the Professor of Natural History (or of Geology when that Chair shall be founded).

(3) To carry on original work in any department of Geological Science which he may select, obtaining therein such assistance by specimens as the Keeper of the Museum shall find it in his power to give.

4. These courses of lectures may be attended (*a*) by matriculated students of Geology, free ; (*b*) by any matriculated student not a member of the class of Geology, on payment to the Demonstrator of a fee of £1 1s. for each course, or such higher fee as the University Court may fix ; (*c*) by any member of the Geological Society of Glasgow on payment of five shillings in lieu of matriculation fee for the winter or summer session, in addition to the authorized class fee.

5. In the event of no appointment being made, or of the Demonstrator resigning, retiring, or being deprived, the revenue accruing during the period of vacancy shall be added to the capital, and the annual income thereof to the stipend payable to the Demonstrators.

Demonstrator.

1902. FREDERICK MORT, M.A., B.Sc.

WALTONIAN MEDICAL LECTURESHIP.

This Lectureship was founded in 1788 by the Rev. Dr. William Walton, Rector of Upton, in the County of Huntingdon, who bequeathed to the Senate for its support the sum of £1000, increased by subsequent accumulations to £2787. The lecturer is required to take for his subject that branch of Medicine or Science connected with Medicine which may be assigned to him by the Governing Body of the University. From 1792 a salary was provided out of the Walton Fund for a lecturer on Midwifery till 1815, when the Chair of Midwifery was founded. From 1816 provision was made in like manner for the teaching of Materia Medica till a Chair in that subject was founded in 1831. Since 1831 the lectureship has been devoted to the subject of Ophthalmology, but, on the resignation of Dr. Thomas Reid in the end of 1900, the University Court, taking into account that the requirements of Ophthalmology under the new Ordinances were met by the training afforded to students in the Glasgow Eye Infirmary and the Glasgow Ophthalmic Institution, resolved to devote the proceeds of the Foundation to the teaching of some other subject. The arrangements for this are not yet completed.

Lecturers.

Midwifery—1792-1815. James Towers, C.M.
Materia Medica—1816-1831. Richard Millar, M.D.
Ophthalmology—1831-1868. William M'Kenzie, M.D.
Ophthalmology—1871-1900. Thomas Reid, M.D., LL.D.

GIFFORD LECTURESHIP ON NATURAL THEOLOGY.

This Lectureship, as well as similar Lectureships in the other Scottish Universities, was founded in 1887 in accordance with the Trust Disposition and Settlement of the late Adam Gifford, sometime one of the Senators of the College of Justice, Scotland. Lord Gifford directed his Trustees to pay over to the Senatus Academicus of the University of Glasgow the sum of Twenty Thousand Pounds for the purpose of establishing a Lectureship or Popular Chair for promoting, advancing, and diffusing the study of Natural Theology, in the widest sense of that term—in other words, "the Knowledge of God, the Infinite, the All, the First and Only Cause, the One and the Sole Substance, the Sole Being, the Sole Reality, and the Sole Existence, the Knowledge of his Nature and Attributes, the Knowledge of the Relations which men and the whole universe bear to Him, the Knowledge of the Nature and Foundation of Ethics or Morals, and of all Obligations and Duties thence arising." The Senate are the Patrons. The Lecturer is appointed for a period of two years and no longer, but the same Lecturer may be reappointed for other two periods of two years each, provided that no one person shall hold the office of Lecturer in this University for more than six years in all. The Lecturer is subjected to no test of any kind, and he is not required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind. The Founder expressed a wish that the subject should be treated as a strictly natural science, like astronomy or chemistry. Matriculated students and others may attend the Lectures.

1888. Professor Max Müller.
1892. Principal Caird, D.D., LL.D.
1893. Professor William Wallace, M.A.
1895. Principal Caird, D.D., LL.D.
1896. Professor Alexander B. Bruce, D.D.
1900. Edward Caird, D.C.L., LL.D., Master of Balliol.
1903. PROFESSOR ÉMILE BOUTROUX.

ALEXANDER ROBERTSON LECTURESHIP.

The Rev. Alexander Robertson, a probationer of the Church of Scotland, who died at Glasgow on 3rd August, 1899, left the residue of his estate, amounting to £2500, for the endowment of a Lectureship in defence of the Christian Religion. The regulations drawn up by his Trustees—Mr. James Lymburn, Librarian to the University, and the Rev. James B. Dalgety, Paisley—received the sanction of the University Court on 14th November, 1901, and are as follows:

1. The Lectureship shall be called the Alexander Robertson Lectures.

2. The course shall be held not oftener than once in every two years, and shall consist of not fewer than five lectures.

3. Out of the revenue of the Lectureship Fund the lecturer shall be paid the sum of £100 when the lectures have been delivered, and a further sum of £50, provided he shall have published his lectures within one year of their delivery, and shall have furnished to the Library of the University of Glasgow fifty copies for distribution.

4. The Lecturer shall be appointed by the University Court on the nomination of a Committee consisting of the Principal of the University and of the Professors in the Faculty of Theology; and it shall be in the power of the Committee to nominate, if they see fit, a member of the Faculty of Theology.

5. It shall be the duty of the Court, at least twelve months before the income of the Lectureship Fund shall have reached the sum necessary to pay the remuneration of the Lecturer and the grant for publication of the lectures, to send intimation to that effect to the Dean of the Faculty of Theology, and should the aforesaid Committee fail to nominate any one within six months after receiving the said intimation, it shall be in the power of the Court to proceed of itself to the selection and appointment of a Lecturer.

6. The lectures shall be delivered at such times and in such place or places as the said Committee may appoint. Admission to the course shall not be restricted to matriculated students, but shall be freely open to the general public.

7. All surplus revenue and any balance accruing from the non-publication of the lectures or otherwise shall be added to the capital fund of the Lectureship. But should at any time the biennial income of the fund reach a larger sum than £150, two-thirds of the balance over that amount shall go to augment the emolument of the Lecturer, and one-third to increase the grant for the publication of the lectures.

M'CALLUM CELTIC LECTURESHIP.

The late Rev. Archibald Kelly M'Callum, LL.D., by his holograph will, dated 8th March, 1881, to which were attached three codicils (the last dated 27th January, 1892), directed his Trustees, among other purposes, to devote an annual sum to a Lectureship, or a course of not fewer than fifteen Lectures, on Celtic Literature. He left detailed directions as to certain subjects which were to be among those discussed. The Lecturer will be appointed by the University Court for a period of three years, and will be eligible for re-election after a subsequent appointment for three years has been made. Matriculated students and others may attend the Lectures. Dr. M'Callum also directed that his library should be handed over to the University as a nucleus for a Celtic Library for the use of the Lecturers and such students as may attend the Lectures, and any others interested in Celtic Literature. The Library is to be kept separate and designated "The Celtic Lectureship Library," the sum of £10 to be annually expended in making additions thereto.

Lecturer—1900. PROFESSOR MAGNUS MACLEAN, D.Sc.

V.—WOMEN'S DEPARTMENT.

QUEEN MARGARET COLLEGE.

In February, 1892, the Universities Commission issued an Ordinance (No. 18), empowering the Scottish University Courts to make provision within the Universities for the instruction of women, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. The Council of Queen Margaret College, having considered the provisions of this ordinance, came to the conclusion that the purpose for which the College had been instituted would be best served by making over their work to the University of Glasgow. They accordingly, with the concurrence of Mrs. Elder, the proprietrix of the buildings and grounds hitherto occupied by the College, offered to transfer to the University Court these buildings and grounds, and the endowments (present and prospective), on condition that these should be devoted to the establishment and maintenance of University Classes for women exclusively. The University Court, after consultation with the Senate, having resolved to exercise the power conferred by Ordinance No. 18, and to provide University instruction for women mainly by the institution of separate classes, agreed to accept the offer made by Queen Margaret College, and remitted to a Committee to take the necessary steps for completing the transfer. In virtue of this arrangement the teachers in Queen Margaret College were appointed by the University Court, and the students in session 1892-93 were admitted matriculated students of the University. In 1893 the College was dissolved, and the funds were handed over to the University Court, but the name "Queen Margaret College" survives as designating the part of the University buildings and grounds which is devoted to the education of women.

ALL women students are required to matriculate and to pay their Class Fees and Examination Fees at Queen Margaret College.

The classes in Queen Margaret College will meet as follows daily, unless otherwise specified :—

WINTER SESSION 1903-4.

I.—ARTS.

THURSDAY, 15TH OCTOBER.

Classes.	*Hours.*	*Class Fees.*	
Latin, Class I.,	9.45 a.m.,	£3 3	PROF. RAMSAY and Mr. D. Rankin.
——— *Class II.,*	3 p.m.,	3 3	
Greek,	8.45 a.m.,	3 3	PROF. PHILLIMORE and Mr. W. Rennie.
English Language and Literature,	2 p.m.,	3 3	PROF. RALEIGH and Mr. D. H. Crawford.
French Language and Literature,	9.45 a.m.,	3 3	M. Charles Martin.
German Language and Literature,	11.15 a.m.,	3 3	Dr. G. P. Thistlethwaite.
Logic,[1]	12 noon,	3 3	Dr. N. Smith.
Logic,[1] (at the University),	9 a.m.,	3 3	PROF. LATTA.
Moral Philosophy,[2]	2.45 p.m.,	3 3	Mr. R. A. Duff.
Moral Philosophy[2] (at the University),	8 a.m.,	3 3	PROF. JONES.
Political Economy (Do.),	2 p.m.,	3 3	PROF. SMART.
Education (Do.),	4 p.m.,	3 3	Mr. Clark.
History (Do.),	10 a.m.,	3 3	PROF. MEDLEY.
Mathematics,	2 p.m.,	3 3	PROF. JACK and Mr. Bell.
Natural Philosophy[3] (at the University),	9 a.m.,	4 4[4]	Prof. Gray.
Natural Philosophy,[3]	3 p.m.,	4 4[4]	Prof. Blyth.
Physical Laboratory,	Sat., 10 a.m. to 12 noon,		
Chemistry,	12 noon,	4 4[4]	Dr. T. Gray.
Chemical Laboratory,	9 a.m. to 1 p.m.,	£3 3 to 5 5	

II.—MEDICINE.

THURSDAY, 15TH OCTOBER.

Classes.	*Hours.*	*Class Fees.*	
Chemistry,	12 noon,	£4 4	Dr. T. Gray.
Chemical Laboratory,	9 a.m. to 1 p.m.,	£3 3 to 5 5	
Practical Chemistry,	9–11 a.m., Tues. and Thurs.,	3 3	
Physics,	3 p.m., Mon., Wed., and Fri.,	3 3	Prof. Blyth.
Physical Laboratory,	10–12, Saturdays,		
Anatomy, Junior,	11 a.m.,	4 4[4]	Dr. T. H. Bryce.
——— *Senior,*	3.15 p.m.,	4 4[4]	
Practical Anatomy,	9 a.m. to 5 p.m.,	3 3[5]	
Physiology,	2 p.m.,	4 4[4]	PROF. M'KENDRICK and Muirhead Demonstrator

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[1] Women students may select either class of Logic.

[2] Women students may select either class of Moral Philosophy.

[3] Women students may select either class of Natural Philosophy.

[4] Fee for a second or subsequent session, £3 3s.

[5] Students who have taken two winters and two summers of Practical Anatomy, as well a the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

Classes.	*Hours.*	*Class Fees.*		
ateria Medica and Therapeutics,	2 p.m.,	£4	4[1]	Dr. Maclennan.
athology, Systematic,	8 a.m.,	4	4[1]	Dr. Workman.
urgery,	4 p.m.,	4	4[1]	Dr. Pringle.
ractice of Medicine,	4 p.m.,	4	4[1]	— —
linical Surgery,	9 a.m.	(see Hospitals).		
linical Medicine,	9 a.m.,	(see Hospitals).		
idwifery,	12 noon,	4	4[1]	PROFESSOR M. CAMERON and Dr. J. M. M. Kerr.

SUMMER SESSION 1904.

MEDICINE.

WEDNESDAY, 20TH APRIL.

Classes.	*Hours.*	*Class Fees.*		
otany,	8 a.m.,	£4	4[1]	Dr. W. H. Lang.
ractical Botany (at University),	1 to 3 p.m.,[2]	3	3	
oology, Elementary (at University),	11 to 12 noon,	4	4[1]	PROFESSOR KERR.
oological Laboratory, Elementary (at University),	9 a.m. to 11 a.m.,	3	3	
ractical Anatomy,	9 a.m. to 5 p.m.,	2	2[3]	Dr. T. H. Bryce.
mbryology,	11 a.m., Mon., Tues., Wed., Thurs.,	2	2	
ractical Anatomy and Embryology, if taken together,		3	3	
ractical Pharmacy,	12 to 1 p.m.,	3	3	Dr. Maclennan.
ractical Physiology,	2 p.m.,	3	3	PROF. M'KENDRICK and Muirhead Demonstrator.
orensic Medicine (at University),	12.30 p.m.,	4	4[1]	PROFESSOR GLAISTER.
ractical Pathology,	10.30 a.m.,	3	3	Dr. Workman.
nsanity,	12 noon, Wed., University, at Gartnavel 1 day weekly	2	2	Dr. Yellowlees.
iseases of the Eye,	4 p.m., Tues. (in Ophthalmic Institute, and Fri. (in Queen Marg. College, and Clinique, 2 p.m. on Mon. and Thurs.	2	2	Dr. A. M. Ramsay.

HOSPITALS.—Royal Infirmary—First year, £10 10s. ; Second year, £10 10s. ; six onths, £6 6s. ; three months, £4 4s. Royal Hospital for Sick Children—twelve onths, £1 1s. Glasgow Maternity Hospital—£3 3s. Belvidere Fever Hospital, 1 1s.

SCIENCE CLASSES.—Of the subjects above enumerated the following are also in the aculty of Science, viz.:—Mathematics, Natural Philosophy, Chemistry, Botany, oology, Anatomy, Physiology, and attendance upon the lectures and in the practical lasses qualifies for graduation in Science.

The Honours Classes in Arts and the Higher Classes in Science at the University re open to women.

The arrangements for the classes in Queen Margaret College are similar to those of the classes for men, with the exception of English, French, German, Logic, Moral Philosophy, and Natural Philosophy, the arrangements for which are as follows:—

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[1] Fee for a second or subsequent session, £3 3s.

[2] Students who are taking no class but Botany may take the Practical Class from 9 to a.m., if notice of their wish to do so is given at the beginning of the session.

[3] Students who have taken two winters and two summers of Practical Anatomy, as well the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

ENGLISH LANGUAGE AND LITERATURE.

Professor—W. A. Raleigh, M.A.
Lecturer—D. H. Crawford, M.A.
Assistant—D. N. Smith, M.A.

The class will meet daily, except on Saturday, at 2 p.m.

The subjects to be studied are the following:—

I. On Monday, Wednesday, and Friday, throughout the session, a continuous course will be given on the History of English Literature during the Eighteenth Century (1700-1784). The works prescribed for study are:—

Swift, *Tale of a Tub;* Pope, *Satires and Epistles; Prologue,* I., IV., V., *Preface to Shakespeare:* Addison, Coverley papers in the *Spectator;* Johnson, *Vanity of Human Wishes* and *Preface to Shakespeare;* Gray, *Poems;* Goldsmith, *Deserted Village;* Sheridan, *The School for Scandal;* Morgan, *Essay on Falstaff;* Burke, *Speech on Conciliation with America.*

II. On Tuesdays and Thursdays the following subjects will be studied:—

(1) The history of the English Language.

(2) English Composition. Text-books: *Composition Primer* and *Questions and Exercises on English Composition,* Nichol and M'Cormick.

(3) Shakespeare, *Henry IV.,* Parts I. and II., *Macbeth;* Tennyson, *Selected Poems* (Macmillan).

Students who have already taken the ordinary class are permitted to attend the Lectures on Monday, Wednesday, and Friday, for a fee of £2 2s. Such attendance cannot be reckoned towards graduation.

For the Honours Class, see p. 72. For the Nichol Memorial Prize, see Index.

FRENCH LANGUAGE AND LITERATURE.

Lecturers.

1895. Alfred Mercier, L.-ès-L.
1898. Charles Martin, M.A. (Paris), O.A.

The class meets daily at 9.45 A.M., and the course qualifies for graduation in Arts. The work of the class includes the subjects stated in the syllabus of the class of French Language and Literature at page 73. It is hoped that a tutorial class of pronunciation will be organized.

Students who take French for purposes of graduation must attend both classes, but students who do not intend to graduate may take the Language Class alone or the Literature Class alone. The fee for the Language Class alone or the Literature Class alone is £2 2s.

HONOURS CLASS.—See p. 74.

GERMAN LANGUAGE AND LITERATURE.

Lecturer.

G. P. THISTLETHWAITE, B.A., Ph.D.

ORDINARY CLASS.—This class meets daily at 11.15 A.M., and the course, which extends to one hundred meetings, qualifies for graduation in Arts. The work of the class includes the subjects stated in the syllabus of the Class of German Language and Literature at page 75.

Students who do not intend to graduate may take either the Literature Class or the Language Class alone. The fee for one class alone is £2 2s.

HONOURS CLASS.—See p. 75.

LOGIC.

Lecturer—NORMAN SMITH, M.A., D.Phil.

This class meets daily at 12 noon, and the course, which extends to one hundred meetings, qualifies for graduation in Arts. The work of the class includes the subjects stated in the syllabus of the class of Logic and Rhetoric at page 77.

MORAL PHILOSOPHY.

Lecturer—ROBERT A. DUFF, M.A.

This class meets daily at 2.45 P.M., and the course, which extends to one hundred meetings, qualifies for graduation in Arts.

The work of the class includes the subjects stated in the syllabus of the class of Moral Philosophy at page 78.

NATURAL PHILOSOPHY (PHYSICS).

Lecturer.

JAMES BLYTH, M.A., LL.D., F.R.S.E.

This class will meet daily at 3 P.M., except on Saturdays; also, for practical work, on Saturdays, 10 to 12. The course will include:—

(1) Experimental Physics (Properties of Matter, Sound, Heat, Light, Magnetism, Static Electricity, Voltaic Electricity, Electro-Magnetism), Mondays, Wednesdays, and Fridays. The Lectures will be fully illustrated by experiment.

(2) Theoretical Mechanics (Elementary Kinematics, Elementary Dynamics), Tuesdays and Thursdays.

(3) Practical Physics, Saturdays, 10 to 12. The students will work practically in the Laboratory, and will be taught the construction and use of physical apparatus generally, and will also be required to employ the various instruments, so as to verify natural laws and obtain numerical results.

Text-book.—Knott's *Elementary Physics* or Watson's *Physics.*

Students intending to take a Degree in Arts must take the whole course. The requirements of students preparing for Degrees in Medicine will be met by the first division of the course, and by attending three days weekly, viz., Mondays, Wednesdays, and Fridays.

VI.—SPECIAL STUDY AND RESEARCH.

In Ordinance No. 61, the Universities Commission (1889) made the following regulations for the encouragement of special study and research, and for the appointment of Research Fellows:—

I. It shall be in the power of the Senatus Academicus in each University, with the approval of the University Court, to make regulations under which graduates of Scottish Universities or of other Universities recognized by the University Court for the purposes of this ordinance, or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research, may be admitted to prosecute such study or research in the University.

II. It shall be the duty of the Senatus Academicus in each University—(1) To receive and decide upon all applications for admission to prosecute special study or research; (2) To prepare a list of all persons so admitted (hereinafter referred to as Research Students); (3) To make regulations for the supervision of their work; (4) To satisfy themselves from time to time that the Research Students are carrying on their work in the University in a satisfactory manner; (5) To suspend or exclude from any course any student whose conduct or progress is unsatisfactory.

III. Every applicant for admission must send in to the Senatus Academicus a written application stating any degree or other distinction which he has already obtained, the line of study or research which he wishes to prosecute and the probable period of its duration, together with evidence as to his character, capacity, and general qualifications.

IV. Any application for admission shall be in the first instance referred by the Senatus Academicus to the appropriate Faculty, or to a Committee appointed by the Senatus; one member of the Committee shall always be a Professor or Lecturer within whose department the proposed line of study or research falls. No applicant shall be recommended by the Faculty or the Committee who has not satisfied them by examination or otherwise that he is qualified to prosecute the proposed line of study or research, and further—(*a*) That his proposed line of study or research is a fit and proper one; (*b*) That he possesses a good general education; (*c*) That he is of good character; (*d*) That he proposes to prosecute his studies or research during a period to be approved by the Senatus Academicus. The Faculty or the Committee shall make a report to the Senatus Academicus upon each application. It shall also be their duty, subject to the regulations of the Senatus Academicus, to provide for the supervision of the Research Student's work, and to report at least once a year to the Senatus as to his progress and conduct. The Senatus shall then determine whether he shall remain a Research Student.

V. Every Research Student shall be required to matriculate each year, paying the ordinary fee.

VI. Research Students shall have access to and the use of the University Laboratories and Museums, under such conditions as to payment and otherwise as the University Court, after consultation with the Senatus Academicus, may determine.

Under this section the following regulations have been made :—1. In each laboratory each Research Student shall make payment of a sum which is estimated by the Professor as sufficient to cover the ordinary expenses incident to the Research Student's work. Apparatus and material beyond what is included in the ordinary operations of the laboratory shall be charged to the Student, unless the Professor judges that such apparatus and material will be a useful addition to the laboratory. But it shall be in the power of each Professor to propose to the University Court in any particular case that these payments may be remitted in whole or in part. 2. In all matters of discipline the Research Student shall be under the control of the Professor in whose laboratory he works. 3. All papers arising out of work done in a laboratory shall be submitted to the Professor before publication, and in all such publications a due recognition of the laboratory shall be inserted.

VII. The title of Research Fellow may be conferred by the Senatus Academicus, with the approval of the University Court, on Research Students who have shown special distinction. Such title shall not of itself confer any right to stipend, but it shall be in the power of the University Court to provide a stipend of such amount and for such period as it may think fit to any Research Fellow under the powers of Ordinance 25, Section XI., sub-section 8.

VIII. (1) The Research Fellows shall be appointed as aforesaid after consideration of the report or reports submitted in terms of Section IV. hereof.

(2) The title of Research Fellow may be conferred either at the commencement of the Research Student's course of study or research, or at any time during its progress, as the Senatus Academicus may determine.

(3) Research Fellows shall retain their title and stipend, if any, for the period during which they are engaged in special study or research in the University, and no longer.

(4) Research Students who have been appointed Research Fellows shall continue to be subject to the conditions above prescribed as to the supervision of their work and the reports to be made thereon.

IX. Nothing herein contained shall prejudice the right of Research Students to such Fellowships, Scholarships, or Prizes as may be open to them by Ordinance or Deed of Foundation.

X. The University Court may, subject to the provisions of

Ordinance No. 25, Section XI., sub-section 8, provide such sums as it may think fit in aid of the expenses of special study or research.

Research Fellow—Emeritus Professor Lord Kelvin, G.C.V.O., 1900.

Research Students—Alfred Walter Stewart, B.Sc., 1901; John M. Cowan, B.A., M.B., B.C., 1901; Robert A. Houstoun, 1902; Alexander Wood, B.Sc., 1902; Dougald B. M'Quistan, M.A., 1902; Robert T. Leiper, 1902; James G. Gray, B.Sc., 1902; James Hunter, 1902.

VII.—THE CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND.

This Trust was created by Mr. Andrew Carnegie of New York, and of Skibo in the County of Sutherland. By a trust-deed dated 7th June, 1901, Mr. Carnegie conveyed to Trustees $10,000,000 Bonds by the United States Steel Corporation, bearing interest at 5 per cent., and directed that one-half of the net income should be applied towards the improvement and expansion of the Universities of Scotland in the Faculties of Science and Medicine, also for improving and extending the opportunities for scientific study and research, and for increasing the facilities for acquiring a knowledge of History, Economics, English Literature, and Modern Languages, and such other subjects cognate to a technical or commercial education as can be brought within the scope of the University curriculum, by the erection and maintenance of buildings, laboratories, class-rooms, museums or libraries, the providing of efficient apparatus, books, and equipment, the institution and endowment of Professorships and Lectureships, including post-graduate Lectureships and Scholarships, more especially Scholarships for the purpose of encouraging research, or in such other manner as the Executive Committee of the Trustees might from time to time decide.

It is directed that the other half of the income, or such part thereof as in each year may be found requisite, shall be devoted to the payment of the whole or part of the ordinary class fees exigible by the Universities from students of Scottish birth or extraction, and of 16 years of age or upwards, or scholars who have given two years' attendance after the age of 14 years at such schools and institutions in Scotland as are under inspection by the Scotch Education Department. They must have passed the examination qualifying for admission to the classes for which payment of fees is to be made by the Trust. Applications for the payment of fees must be made in the form prescribed by the Committee. The decision of the Committee in all questions of qualification shall be final, and the fees of all applicants declared to be eligible shall in each case be paid by the Committee as they become due to the factors or authorised officers of the Universities. The Committee shall also have power to withhold payment of fees from any student who is guilty of misconduct, or who fails within a reasonable time to pass the ordinary examinations of the University or any of them. Any surplus remaining in any year from the income applicable to this head of expenditure shall be applied to the first head of expenditure. Extra-mural Colleges, Schools, or classes in Scotland, attendance at which is recognised as qualifying or assisting to qualify for graduation shall, on application, be entitled to participate under the first head of expenditure to such an extent as the Committee may from time to time determine, and the students thereof shall be admitted to the privileges of the second half. In the case of schools or institutions in Scotland established to provide technical or commercial education, the Committee may recognise classes which, though outside the present range of the University curriculum, can be accepted as doing work of a University level, and may allow them and the students thereof to participate under both heads of expenditure to such an extent as the Committee may from time to time determine.

Any surplus income which may remain after satisfying the preceding requirements is to be at the disposal of the Committee, who may expend it (1) in establishing or assisting to establish courses of lectures in convenient centres by Professors or Lecturers of the Universities or Extra-mural Colleges or Schools, in Science and the subjects before-mentioned; or (2) for the benefit of evening classes of students engaged in industrial or professional occupations during the day; or (3) in any other way the Trustees may think proper towards furthering the usefulness of the Universities in connection with the purposes expressed in the trust-deed and constitution. The benefits of the Trust are available to students of both sexes.

The Trustees are partly nominated, and there are also *ex officio* and elected members. The following are the nominated members :

The Right Hon. the Earl of Elgin and Kincardine, K.G., P.C., G.C.S.I., G.C.I.E., D.C.L., LL.D., *Chairman.*
The Right Hon. the Earl of Rosebery, K.G., P.C., K.T., D.C.L., LL.D., F.R.S.
The Right Hon. Lord Balfour of Burleigh, P.C., K.T., LL.D.
The Right Hon. Lord Kelvin, P.C., G.C.V.O., D.C.L., LL.D., F.R.S.
The Right Hon. Lord Kinnear of Spurness, one of the Senators of the College of Justice.
The Right Hon. Lord Reay of Reay, G.C.I.E., G.C.S.I., D.C.L., LL.D.
The Right Hon. Arthur James Balfour, M.P., D.C.L., LL.D.
The Right Hon. Sir Henry Campbell-Bannerman, M.P., G.C.B., LL.D.
The Right Hon. James Bryce, M.P., D.C.L., LL.D.
The Right Hon. John Morley, M.P., D.C.L., LL.D., F.R.S.
Sir Robert Pullar.
Sir Henry Enfield Roscoe, D.C.L., LL.D., F.R.S.
Richard Burdon Haldane, P.C., K.C., M.P., LL.D.
Thomas Shaw, K.C., M.P.

The following are the *ex officio* members :

His Majesty's Secretary for Scotland.
The Lord Provost of Edinburgh.
The Lord Provost of Glasgow.
The Provost of Dunfermline.

The elected members are four in number, one chosen by the University Court of each of the four Scottish Universities. They hold office for periods of four years, and are at present Principal Donaldson (St. Andrews), Professor Stewart (Glasgow), Professor Hay (Aberdeen), and Principal Sir William Turner (Edinburgh).

The administration of the Trust is conducted by an Executive Committee of nine members, one of whom is the Chairman of the Trust. Two of the four Trustees elected by the

Universities are members of the Executive Committee for the first two years, the other two for the next two years, and so on.

The Executive Committee for the Academic year 1903-4 is as follows:

The Earl of Elgin and Kincardine, K.G., P.C., *Chairman.*
Lord Balfour of Burleigh, P.C., K T.
Lord Kinnear of Spurness, K.C., LL.D.
Sir Henry Enfield Roscoe, D.C.L., LL.D.
Thomas Shaw, K.C., M.P.
The Lord Provost of Edinburgh, or an assessor nominated by him, after consultation and with the consent of the Trustees.
The Lord Provost of Glasgow, or an assessor nominated by him, after consultation and with the consent of the Trustees.
Principal Donaldson, LL.D., St. Andrews.
Professor Stewart, D.D., Glasgow.

The offices of the Trust are at the Merchants' Hall, Hanover Street, Edinburgh. *Secretary*, Dr. W. S. M'Cormick; *Treasurer*, Dr. John Ross. All applications should be addressed to the Secretary of the Trust.

The following excerpt from a letter written by Dr. Carnegie to the Earl of Elgin, Chairman of the Trust, explains the intention of the founder:—

"London, *7th June*, 1901.

"My Dear Lord Elgin,

. . . .

"As your Lordship is aware, my desire throughout has been that no capable student should be debarred from attending the University on account of the payment of fees. I believe that the conditions of application ensure a sufficient standard of merit, and I hope that the honest pride for which my countrymen are distinguished will prevent claims from those who do not require assistance, and that the invidious task of enquiring into the circumstances of each candidate need not be imposed upon the Trustees. But, to further mark my personal belief and hope in this matter, I have made provision in the Trust Deed that the Trustees may receive funds from others to be administered along with the funds placed by me. I consider this a valuable clause, believing, from my own experience with young men, that some students in after life may value the privilege of repaying advances received from the Trustees, although these are free gifts. I hope the Trustees will gladly welcome such repayments, if offered, as this will enable such students as prefer to do so to consider the payments made on their account merely as advances which they resolve to repay if ever in a position to do so, and that this will protect and foster the spirit of manly independence so dear to the Scot.

Very truly yours,

ANDREW CARNEGIE."

An important part of the Trust's operations concerns the endowment of Post-Graduate Study and Research, and the Executive Committee have issued certain Regulations defining the purposes for which Scholarships, Fellowships, and Grants in aid of Research are offered, and setting forth the conditions under which they may be held. They are as follows:

I. SCHOLARSHIPS.

(a) *In Science and Medicine.*

The Executive Committee are prepared to consider applications for Carnegie Scholarships in Science and Medicine on the following conditions:

I. A Scholar must be a graduate of a Scottish University who desires to devote himself to higher study and research in some department of science or medicine.

II. A Scholarship shall be of the annual value of £100, payable by half-yearly instalments in advance, the second instalment being payable on the receipt of a satisfactory report by the Scholar and certificate from the authority under whose supervision the Scholar has been working. The Executive Committee reserve power to suspend or withhold payment, if not satisfied with the progress or conduct of the Scholar.

A Scholarship shall not be held along with any other scholarship or position of emolument, except with the sanction of the Executive Committee.

In the event of a candidate holding or obtaining any other scholarship or position of emolument, the Executive Committee may, in place of granting or continuing to grant a Carnegie

Scholarship, supplement the amount of such scholarship or emolument so as to bring the income up to at least £100, the candidate thereby ranking, and coming under the same regulations, as a Carnegie Scholar.

III. A Scholar shall ordinarily be expected to devote his whole time to the purpose for which the Scholarship is awarded. If he proposes to undertake other work during his tenure of the Scholarship, he must define such work precisely, and obtain the sanction of the Executive Committee.

IV. A Scholarship shall ordinarily be tenable for one year; but it may be renewed for a second year, if the Executive Committee deem this expedient.

V. A candidate must be nominated by a Professor or Lecturer in a Scottish University, or by a Teacher in Scotland recognised for the purpose of graduation by a Scottish University, under whose supervision, unless other supervision be approved by the Executive Committee, he shall work during his tenure of the Scholarship.

The Nomination Form, to be signed by the nominator and the candidate, must contain information on the following points, all of which will be taken into consideration in estimating the relative claims of candidates:

(1) The age of the candidate, his career as a student, and his knowledge of modern languages.

(2) His special fitness for the work proposed.

(3) His programme of study and research during his tenure of the Scholarship, and where and under whose supervision he proposes to work.

(4) Whether the candidate proposes to undertake other work during his tenure of the Scholarship; and, if so, the character of the work proposed, and the demand on his time which it will involve.

(5) Whether the candidate holds, or expects to hold, any other scholarship or position of emolument; and if so, particulars of the amount and duration of such scholarship or emolument.

(6) The names of two or more authorities, other than the nominator, to whom the Executive Committee may refer as to the qualifications of the candidate.

The nominator must, if required, satisfy the Executive Committee that the candidate, if appointed to a Scholarship, will be provided with the facilities and supervision necessary for carrying out his programme of study and research, and that such information will be furnished on his progress and conduct as may seem expedient to the Executive Committee.

VI. By accepting a Scholarship a Scholar comes under an obligation to submit such reports on the progress of his work as the Executive Committee may require.

VII. Nomination Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

(b) *In History, Economics, and Modern Languages and Literature.*

The Executive Committee are prepared to consider applications for Carnegie Scholarships in History, Economics, and Modern Languages and Literature on the following conditions:

I. A Scholar must be a graduate of a Scottish University, preferably with Honours in at least one of the Groups: History, Economic Science, English, Modern Languages and Literature, who desires at home or abroad to devote himself to higher study and investigation within the scope of these groups of study.

II. A Scholarship shall be of the annual value of £100, payable by half-yearly instalments in advance, the second instalment being made payable on the receipt of a satisfactory report by the Scholar and certificate from the authority under whose supervision the Scholar has been working. The Executive Committee reserve power to suspend or withhold payment, if not satisfied with the progress or conduct of the Scholar.

A Scholarship shall not be held along with any other scholarship or position of emolument, except with the sanction of the Executive Committee.

In the event of a candidate holding or obtaining any other scholarship or position of emolument, the Executive Committee may, in place of granting or continuing to grant a Carnegie Scholarship, supplement the amount of such scholarship or emolument so as to bring the income up to at least £100, the candidate thereby ranking, and coming under the same regulations, as a Carnegie Scholar.

III. A Scholar shall ordinarily be expected to devote his whole time to the purpose for which the Scholarship is awarded. If he proposes to undertake other work during his tenure of the Scholarship, he must define such work precisely, and obtain the sanction of the Executive Committee.

IV. A Scholarship shall ordinarily be tenable for one year; but it may be renewed for a second year, if the Executive Committee deem this expedient.

V. A candidate must be nominated by the Board of Studies whose Department of Study includes the Group in which he has graduated with Honours, and also by the Board of Studies whose Department of Study includes the subject or subjects relevant to the candidate's proposed study or investigation, should this Board of Studies be other than the former.

The Nomination Form, to be signed by the Convener or Conveners of the Board or Boards of Studies and by the candidate, must contain information on the following points, all of which will be taken into consideration in estimating the relative claims of candidates:

(1) The age of the candidate, and his career as a student, including particulars as to his general culture and his proficiency in the above-named groups of study.

(2) His special fitness for the work proposed.

(3) His programme of study and investigation during his tenure of the Scholarship, and where and under whose supervision he proposes to work.

(4) Whether the candidate proposes to undertake other work during his tenure of the Scholarship; and, if so, the character of the work proposed, and the demand on his time which it will involve.

(5) Whether the candidate holds, or expects to hold, any other scholarship or position of emolument; and if so, particulars of the amount and duration of such scholarship or emolument.

(6) The names of two or more authorities, other than the nominator or nominators, to whom the Executive Committee may refer as to the qualifications of the candidate.

The nominator or nominators must, if required, satisfy the Executive Committee that the candidate, if appointed to a Scholarship, will be provided with the facilities and supervision necessary for carrying out his programme of study and investigation, and that such information will be furnished on his progress and conduct as may seem expedient to the Executive Committee.

VI. By accepting a Scholarship a Scholar comes under an obligation to submit such reports on the progress of his work as the Executive Committee may require.

VII. Nomination Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

II. FELLOWSHIPS.

(a) *In Science and Medicine.*

The Executive Committee are prepared to consider applications for Carnegie Fellowships in Science and Medicine on the following conditions :

I. A Fellow must be a graduate of a Scottish University who has given evidence, preferably by work already published, of capability to advance science or medicine by original research. and who desires to devote himself further to this work.

II. A Fellowship shall be of the annual value of £150, exclusive of such special expenses in connection with his research as the Executive Committee may allow. Payment shall be made by half-yearly instalments in advance ; but the Executive Committee reserve power to suspend or withhold payment, if not satisfied with the progress or conduct of the Fellow.

A Fellowship shall not be held along with any other fellowship or position of emolument, except with the sanction of the Executive Committee.

In the event of a candidate holding or obtaining any other fellowship or position of emolument, the Executive Committee may, in place of granting or continuing to grant a Carnegie Fellowship, supplement the amount of such fellowship or emolument so as to bring the income up to at least £150, the candidate thereby ranking, and coming under the same regulations, as a Carnegie Fellow.

III. A Fellow shall ordinarily be expected to devote his whole time to the purpose for which the Fellowship is awarded. If he proposes to undertake other work during his tenure of the Fellowship, he must define such work precisely, and obtain the sanction of the Executive Committee.

IV. A Fellowship shall ordinarily be tenable for two years, the extension to a second year being dependent on the receipt of a satisfactory report by the Fellow on his work during the first year; but it may be renewed for a third year, if the Executive Committee deem this expedient.

V. A candidate must furnish the Executive Committee with information on the following points, all of which will be taken into consideration in estimating the relative claims of candidates:—

(1) His age, his career as a student, and his knowledge of modern languages.

(2) His special fitness to conduct the research proposed, and his previous experience, along with any published accounts of work already done.

(3) His programme of research during his tenure of the Fellowship; where he proposes to work; and whether he proposes to work independently or in collaboration.

(4) Whether he proposes to undertake other work during his tenure of the Fellowship; and, if so, the character of the work proposed, and the demand on his time which it will involve.

(5) Whether he holds, or expects to hold, any other fellowship or position of emolument; and if so, particulars of the amount and duration of such fellowship or emolument.

(6) The names of two or more authorities to whom the Executive Committee may refer as to his qualifications.

(7) An estimate, as detailed as is possible, of special expenses, if any, required in connection with the research he proposes to undertake.

VI. By accepting a Fellowship a Fellow comes under an obligation to submit such reports on the progress of his work as the Executive Committee may require.

The publication, in some form, of an account of the results of his research will be expected in all cases.

VII. Application Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

(*b*) *In History, Economics, and Modern Languages and Literature*

The Executive Committee are prepared to consider applications for Carnegie Fellowships in History, Economics, and Modern Languages and Literature on the following conditions:

I. A Fellow must be a graduate of a Scottish University, preferably with Honours in at least one of the Groups: History, Economic Science, English, Modern Languages and Literature, who desires to investigate at first-hand, at home or abroad, some historical, social, economic, or educational problem or factor of modern civilisation, and who can give evidence by his previous career and general culture, and also preferably by work already published, of capability to advance knowledge by his proposed investigation.

II. A Fellowship shall be of the annual value of £150, exclusive of such special expenses in connection with his investigation as the Executive Committee may allow. Payment shall be made by half-yearly instalments in advance; but the Executive Committee reserve power to suspend or withhold payment, if not satisfied with the progress or conduct of the Fellow.

A Fellowship shall not be held along with any other fellowship or position of emolument, except with the sanction of the Executive Committee.

In the event of a candidate holding or obtaining any other fellowship or position of emolument, the Executive Committee may, in place of granting or continuing to grant a Carnegie Fellowship, supplement the amount of such Fellowship or emolument so as to bring the income up to at least £150, the candidate thereby ranking, and coming under the same regulations, as a Carnegie Fellow.

III. A Fellow shall ordinarily be expected to devote his whole time to the purpose for which the Fellowship is awarded. If he proposes to undertake other work during his tenure of the Fellowship, he must define such work precisely, and obtain the sanction of the Executive Committee.

IV. A Fellowship shall ordinarily be tenable for two years, the extension to a second year being dependent on the receipt of a satisfactory report by the Fellow on his work during the first year; but it may be renewed for a third year, if the Executive Committee deem this expedient.

V. A candidate must furnish the Executive Committee with information on the following points, all of which will be taken into consideration in estimating the relative claims of candidates:—

(1) His age, and his career as a student, including par-

ticulars as to his general culture and his proficiency in the above-named groups of study.

(2) His special fitness to conduct the investigation proposed, and his previous experience, along with any published accounts of work already done.

(3) His programme of investigation during his tenure of the Fellowship; where he proposes to work; and whether he proposes to work independently or in collaboration.

(4) Whether he proposes to undertake other work during his tenure of the Fellowship; and, if so, the character of the work proposed, and the demand on his time which it will involve.

(5) Whether he holds, or expects to hold, any other fellowship or position of emolument; and if so, particulars of the amount and duration of such fellowship or emolument.

(6) The names of two or more authorities to whom the Executive Committee may refer as to his qualifications.

(7) An estimate, as detailed as is possible, of special expenses, if any, required in connection with the investigation he proposes to undertake.

VI. By accepting a Fellowship a Fellow comes under an obligation to submit such reports on the progress of his work as the Executive Committee may require.

A Fellow will be expected to submit for publication a thesis or memoir upon the results of his investigation.

VII. Application Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

III. Grants in Aid of Research.

The Executive Committee are prepared to consider applications for Grants in aid of Research on the following conditions:—

I. An applicant for a Research Grant must be a Professor, Lecturer, or Assistant in a Scottish University, a Teacher in Scotland recognised for the purpose of graduation by a Scottish University, or a Scottish University Graduate resident in Scotland.

II. A Research Grant is not intended to take the place of such provision as the University Courts may make out of the Grants for Permanent Equipment under the Scheme of "Grants for five years to the four Universities of Scotland."

III. An applicant must furnish the Executive Committee with information on the following points, all of which will be taken into consideration in estimating the relative claims of applicants:—

(1) His experience in research, with copies of or references to any published papers, or, if he has no papers to offer, with references to two or more authorities who are acquainted with his qualifications.

(2) The nature of the research in which he desires to engage, and the results expected to follow therefrom.

(3) The period over which the proposed research is likely to extend, and the approximate amount of time which he expects to be able to devote to it.

(4) A statement of special requirements for the proposed research, with a detailed estimate of the cost.

(5) Whether he has received, or is receiving, any grant from any other source for the same object; and if so, what results have already ensued from his investigations.

III. By accepting a Grant an applicant comes under an obligation to send to the Executive Committee, when required, a report containing—(*a*) a brief statement (not necessarily for publication) showing the results arrived at, or the stage which the inquiry has reached; (*b*) a statement of the expenditure incurred; and (*c*) copies of or references to any papers in which results of the research have been printed.

The publication, in some form, of an account of the results of the research will be expected in all cases.

IV. Instruments of permanent value purchased by means of the grant shall, at the conclusion of the research or at such other time as the Executive Committee may determine, be placed under the care and at the disposal of the institution in which the research has been conducted, provided that the Executive Committee may, if they see fit, request their return.

V. An application for a Grant to two or more collaborators in the same research must be signed by each; but they shall appoint one of their number who shall be responsible for furnishing the report, for receiving and disbursing the money, and in general for the conduct of the research.

VI. Application Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

VIII.—LIBRARIES, MUSEUM, BOTANIC GARDEN.

UNIVERSITY LIBRARY.

The University Library was founded in the fifteenth century. It contains an extensive and valuable collection of books. The Librarian is appointed by the University Court. The Library is under the immediate superintendence of a Committee consisting of three members of the University or others, not being members of Senate, appointed by the University Court, and of six members of Senate appointed by the Senate. All reports by this Committee are, in the first instance, received by the Senate, and the Senate has power, subject to the review of the University Court, to confirm, modify, or reject the recommendations in such reports.

The Library is always increasing by donations and by a grant of £707 per annum, formerly paid by the Treasury, as compensation for the loss of the Stationers' Hall privilege, and now received from the University Court. It receives also a grant of £100 annually for scientific periodicals from the Bellahouston Trustees. The Carnegie Trust has allocated to the library a grant of £1000 for each of the five years from 1st January, 1903.

During recent years the Library has acquired several valuable collections. Amongst these the most important are the following:—

The Collection bequeathed to the University by the late W. EUING, ESQ., amounting to about 15,000 volumes. It contains many books printed in the fifteenth and sixteenth centuries, illustrated books, English literature, Classics, above 2,000 Bibles, and a very large number of Psalm and Hymn books.

The library of the late SIR WILLIAM HAMILTON, Professor of Logic in the University of Edinburgh, amounting to about 8,000 volumes. This collection, which consists principally of Classics, editions of Aristotle, and treatises on Logic and Metaphysics, was purchased by private subscription and presented to the University. A list of the subscribers was inserted in the *Calendar* for 1879-80.

The WALKER-ARNOTT Botanical library of 970 volumes.

The Musical library of the late THOMAS L. STILLIE, ESQ., numbering 760 volumes. It contains the works of the chief composers, many of them in score, and an extensive series of modern operatic compositions, continental and English.

The collection of books on Palestine, which belonged to the late DR. A. B. M'GRIGOR, consisting of 655 volumes of works, illustrating the natural and civil history, topography, and antiquities of Jerusalem and the Holy Land. This collection was presented along with 83 volumes, containing about 1,000 pamphlets, by Alexander M'Grigor, Esq.

The library of the REV. A. K. MACCALLUM, LL.D., containing over 3,000 volumes, bequeathed to the University—along with an annual sum of £10 to be spent on its increase—as the nucleus of a Celtic library.

A collection of works, numbering over 600 volumes, relating to Mediaeval Philosophy, which formed part of the library of the late PROFESSOR VEITCH—presented by Mrs. Veitch.

A selection, consisting mainly of theological works and amounting to about 3,800 volumes, from the library of the late Rev. Alexander Robertson, who also left the residue of his means to found a lectureship in the University in defence of the Christian religion; 800 volumes of general literature from the library of the late F. A. ECK, ESQ.; over 1,000 volumes—selected from the library of the late JAMES HOTSON, merchant—presented by DR. THOMAS REID; 700 volumes, including extensive histories of the Netherlands, books on universities and schools, and many theological works, presented by Professor J. E. B. MAYOR, D.D.; a complete copy of Migne's *Patrologie* in 388 volumes, presented along with an oak bookcase by the subscribers as a memorial of the late Dr. W. P. DICKSON, Curator of the Library; and a nearly complete set of the works published at the University Press, consisting of about 340 volumes of books and 40 bound volumes of pamphlets —presented by James J. MacLehose, Esq., M.A.

The custody and management of the Library are regulated by Ordinance No. 64, and by the rules framed under that Ordinance and approved by the University Court on 14th November, 1895. The following are the principal regulations relative to the use of the Library:—

Books shall not be given out except to the borrower in person, or to some one having written authority from him.

It shall be in the power of the Librarian at any time to withdraw any work from circulation, subject to appeal to the Library Committee;

and to call in any book from any borrower after the lapse of the period for which such borrower is entitled to retain it, upon receiving a written request to do so from any person entitled to the use of the Library. In the notice of recall a period of not less than three clear days shall be allowed for making the return, and the penalties leviable for neglect shall be specified in the notice.

The following classes of work, viz.:—Manuscripts, rare books or books in any way difficult to be replaced, works of reference, separate maps or plates, unbound music or parts of works, pamphlets or books not sufficiently protected by the binding, shall not be given out except on an order of, and under conditions to be fixed by, either (*a*) the Senate, (*b*) the Library Committee, or (*c*) three Members of the Library Committee, according as, in the discretion of the Librarian, the special circumstances of each case may require.

Each member of the following classes of readers shall be allowed to borrow, and to have in his, or her, possession at one time the undermentioned number of volumes, but not more :—

Each Member of the Senatus Academicus, thirty volumes.

Each University Lecturer, twenty volumes.

Each Assistant and Examiner, and each holder of a Teaching Fellowship, fifteen volumes.

The Librarian, ten volumes; and each Assistant-Librarian, five volumes.

Each Extra-Academical Teacher, recognized by the University Court, in the town in which the University is situated, ten volumes.

Each retired Principal or Professor, ten volumes.

Each Member of the University Court, during his tenure of office, ten volumes.

Each Member of the General Council of any Scottish University (and each Graduate under the age of twenty-one years) in each year in which he, or she, shall have paid a subscription to the Library of ten shillings and sixpence, six volumes.

Provided that no Member of the University Court or of the General Council shall be entitled to obtain from the University Library books required by the teachers or students of the University in the prosecution of academic work and research, and that it shall be in the discretion of the Librarian, subject to appeal to the Library Committee, to decide from time to time what books are so required.

Any Member of the General Council of any Scottish University shall be allowed to compound for the Library subscription by a single payment of Five Guineas, which shall secure to him, or her, for life the same privileges as would accrue from the annual payments.

It shall be in the power of the Library Committee from time to time to grant the use of the Library to persons who may not be Members of the University, for purposes of literary research, and the names of those privileged readers shall be reported annually to the University Court. All grants under this section shall terminate with the close of the reading year, but shall be renewable if again applied for. Each special reader shall pay an annual subscription of ten shillings and sixpence, and shall be entitled to borrow six volumes at one time, but not more.

Subject always to the provision as to the return of books for the annual inspection, all persons entitled to the use of the Library under the foregoing regulations shall have the right to retain each book borrowed during the winter session for one month, and each book borrowed during the summer session for two months, from the date of borrowing ; and may further retain each book until it shall have been recalled by the Librarian.

Every Matriculated student, or other Student admitted by ordinance to the use of the Library, shall be entitled to have in his, or her, possession at one time, during the winter session, four volumes but not more, and during the summer session and vacation, six volumes but not more. Every student shall have the right—subject to the return of books for the inspection—to retain any book during the winter session for two weeks, and during the summer session for four weeks, from the date of borrowing, and may further retain each book until it shall have been recalled by the Librarian. But no student shall be permitted to borrow any book from the Library until he, or she, shall have lodged with the Librarian a deposit of £1 in security for the due return of the books and the payment of any fines which may be incurred.

During the winter session such students only as are attending the English Literature classes shall be allowed to borrow works of fiction in English, and then only to the extent of two volumes at one time. During the summer session and vacation students may borrow three volumes of fiction at one time, but not more.

The reading term for Students, Members of General Council, and Special Readers, shall begin with the commencement of the winter session in each year, and terminate with the close of the autumn vacation following.

Readers shall not be allowed to borrow books in more than one capacity.

A general inspection of the Library shall take place in April, beginning with the seventh, and continuing for eight lawful days thereafter.

All works whatever, and by whomsoever borrowed, shall be returned to the Library before the beginning of the period of the annual inspection under the penalties hereinafter mentioned. The Library shall be wholly closed during the time of the inspection.

If any person shall retain any volume after the commencement of the period of the annual inspection, such person shall incur a fine of one shilling for each volume ; and in the event of any volume not being returned before the close of one week after the last day of the inspection, the fine shall be repeated from week to week until the volume is returned, or until the total amount of the fine shall have reached the sum of ten shillings.

If any person, when required by the Librarian to return a book, shall fail to do so before the expiry of the time specified in the notice, such person shall incur a fine of one shilling for each volume, and thereafter a further penalty of sixpence per day so long as the volume is not returned or until the total amount of the fine shall have reached the sum of ten shillings.

The Librarian is instructed forthwith to report to the Library Committee all cases in which he shall find that books have been mutilated, disfigured by writing on the margin, or otherwise injured, while in the possession of readers; and persons guilty of such offences shall be liable to replace the injured books, and shall be fined or suspended from the privileges of the Library at the discretion of the Committee.

So long as any Library subscription or any fine incurred remains unpaid, and so long as any person continues in possession of a book which he is not entitled to retain, the right of the defaulter to the use of the Library shall be suspended and remain in abeyance.

All readers borrowing books from the Library must obtain them from, and return them to, the Assistant-Librarians in the ante-room on the days and during the hours when the Library is open.

Persons other than students who wish to consult books in the Library will be accommodated in the First Bay of the Lower Hall.

Visitors on giving their names will be conducted over the Library by an attendant. They are not permitted to enter the Reading-Room during the hours when it is open to students.

No person, except Members of the Teaching Staff, shall otherwise be admitted to the interior of the Library without the special permission of the Chairman of the Library Committee or the Librarian.

All persons, whether readers or visitors, are strictly prohibited from entering the Bays, or taking the books from their places on the shelves.

The Library is open for giving out and receiving back books every lawful day during the winter session from 11 A.M. till 2.30 P.M., except the Christmas and other holidays specially appointed by the University, when it remains closed, and on Saturdays, when it is open from 11 A.M. till 1 P.M. During the summer it is open on Mondays, Wednesdays, and Fridays from 11.30 A.M. till 2 P.M.

CATALOGUES.

The General Alphabetical Catalogue may be consulted in the Catalogue Room by Readers, on application to the Librarian.

Students and Graduates who are engaged in special research will, on similar application, have access to the Classified Catalogues. These catalogues were arranged by the late Professor Dickson, who held the office of Curator of the Library, and the expenses incurred by him in connection with their preparation were defrayed by the late Dr. A. B. M'Grigor.

READING-ROOM.

In connection with the Library, a Reading-Room, provided with a special collection of books of reference for the use of Matriculated Students, is open for readers, Saturdays and holidays excepted, during the winter session from 9 A.M. till 4 P.M., and during the summer session from 9 A.M. till 2 P.M.

The Room is primarily intended for readers consulting the books of the Special Collection ; but so far as the accommodation will allow, students may make use of it for individual private study. The following are the principal rules applicable to the Room :—

Every Matriculated Student who shall at the beginning of the session or thereafter record (in a book kept by the Librarian) his desire to use the Reading-Room in accordance with the rules for consulting of books or private study, will receive a voucher entitling him to admission. No student will be admitted to the use of the Room without possessing a voucher.

All readers are required to abstain from talking, whispering, or any other form of distracting or disturbing others, and to enter and leave the Room (and Vestibule) with as little noise as possible. Readers shall exhibit their vouchers when asked ; and shall at once give their names and matriculation numbers, if they shall be requested to do so.

Each student, desirous of borrowing books from the Special Collection in the Vestibule, is required to fill up one of the receipt papers with his name, matriculation number, and the title of the book or books wanted, and to present it to the Assistant-Librarian in charge. Students are not permitted to have the use of more than two volumes at one time. The books received are to be used only in the Reading-Room, and are to be returned by the receiver himself into the hands of the Assistant-Librarian. The return of books by those who have to leave the room at the end of any hour is to be made not later than five minutes before that time, and during that interval no books will be given out.

Books of reference not included in the Special Collection, but contained in the General Library, may be obtained for consultation in the Reading-Room on presenting a paper with the name and matriculation number of the reader making the request, and the title of the book wanted, to one of the Assistant-Librarians in the Library.

The Assistant-Librarian in charge, Mr. William G. Macdonald, is instructed to report at once to the Library Committee the name of any student transgressing the rules.

Donations to the University Library.

List of Donations from 1st March, 1902, to 28th February, 1903.

Académie des Sciences de Cracovie.—Bulletin international. Math.-Nat. Classe. 1902. Philol.-Hist. Classe. 1902.—Catalogue of Polish scientific literature. I. 4, II. 1, 2.

Accademia delle Scienze di Torino.—Memorie. Ser. 2a. LI., LII.

Accademia delle scienze fisiche e matematiche di Napoli.—Atti. 2a S. XI. —Rendiconto. 3a S. VIII. 1901.

256 volumes of the late Professor Adamson's books purchased and presented by a few of his friends.

Mr. W. Innes Addison.—Prize lists of the University of Glasgow. 1777-1833.

The Admiralty.—Greenwich observations. 1899.—Spectroscopic and photographic results. 1899.—Cape meridian observations. 1877, 1878-79, 1896-99. 4 vols.

Agent General of New South Wales.—Hermes: the Jubilee number.

Agent General of Tasmania.—Progress of the mineral industry of Tasmania. 4 parts.—Handbook of Tasmania.

Professor V. N. Alexandrenko.—Verhandlungen zwischen Russland und England in XVIII. Jahrhundert.

Mr. John Anderson.—Catalogue of early Belfast printed books. 2nd Supp.

Army Medical Department.—Report for 1900.—Howard, Handbook of the medical organisations of foreign armies.

Asiatic Society of Bengal.—Bibliotheca Indica. N.S. Nos. 1001-1014.

Archæological Surveyor, Punjab Circle.—Progress Report. 1901-02.

Australian Museum.—Report. 1901.—Records. IV. 6, 7.

Dr. Francisco Asturias.—Historia de la medicina en Guatemala.

The Baird Trustees.—Lang, The church and its social mission. 2 copies.

Batavia Observatory.—Observations. XXII. 2, XXIII.—Regenwaarnemingen. 1901.

The Belgian Government.—Expedition Antarctique Belge. Résultats du voyage du S. Y. Belgica. 12 parts.

J. W. Benson.—Time and time-tellers.

La Bibliothèque Royale de Belgique.—Gheyn, Catalogue des manuscrits. II.

Bibliotheca da Universidade de Coimbra.—Archivo bibliographico. II.—Reforma dos estudos da Universidade.

Professor Bickerton.—The perils of a pioneer.

Birmingham Natural History Society.—Proceedings. XI. 2.

Board of Education.—Report for 1901-02.—Report on museums, colleges, etc., for 1901.—Prospectus of the College of Art. 1902-3.—Prospectus of the College of Science. 1901-2.—List of successful candidates in honours. 1901.—Regulations [and Supplementary regulations] for secondary day schools. 1902.—Regulations for evening schools.—Art examination papers. 1902.—Science examination papers. 1902.—Reports of inspectors for 1901. 2 parts.—National competition, 1902: list of students rewarded.

Bohemian Society of Clinical Medicine.—Achives. III.

Boston Public Library, U.S.—Annual list of additions. 1901-02.—Monthly bulletin. 1902.

British Congress on Tuberculosis.—Horne, Descriptive catalogue of the Museum. 1901.

Brooklyn Institute of Arts and Sciences.—Science bulletin. I. 2.

John Brown, B.Sc.—Nature. LXIV., LXV.

Mr. J. T. T. Brown.—Huchown of the Awle Royale examined in the light of recent criticism.

Messrs. T. B. Browne.—The advertiser's A.B.C. 1902.

Mr. Alexander Brownlie.—Tides in the Pacific Ocean. 1902.

Bureau of American Ethnology.—18th annual report. Part 2.

Herr Benno Buerdorf.—Kommentar zu den vier Evangelien von P. van Dyk.

Budapest Statistical Bureau.—Publicationen. XXIX. 2.

Rev. W. S. Bruce, D.D.—The formation of Christian character.

William Bruce, M.D., LL.D.—Report of the health of Ross and Cromarty. 1901.

Dr. Thomas H. Bryce.—The cairns of Arran.

Calendars, programmes, or reports have been received from the following institutions :—Aberdeen University; Auckland University College; Belfast Queen's College; Birmingham University; Bombay University; Brown University, U.S.A.; Budapesti Kiralyi Magyar Tudomanyegyetem; Canterbury College, New Zealand; Cape of Good Hope University; Columbia University, New York; Columbian University, Washington; College of Preceptors, London; Dalhousie University; Durham University; Durham College of Science; Durham College of Medicine; École Pratique des Hautes Études, Paris; Edinburgh University; Guy's Hospital, London; Hartford Theological Seminary; Johns Hopkins University; Harvard University; Kolosvar University; Lehigh University; M'Gill University, Montreal; Melbourne University; New Zealand University; Owen's College, Manchester; Pharmaceutical Society; Presbyterian College, Halifax; Princeton University; Owen's College, Cork; Queen's College, Galway; Queen's College and University, Kingston; Robert College, Constantinople; Royal College of Surgeons of England; Royal Institute of British Architects; Royal University of Ireland; St. Mungo's College, Glasgow; St. Petersburg University; Technische Hochschule zu Aachen; Tokyo Imperial University; Trinity College, London; Victoria University, Canada; Victoria University, Manchester; Yale University; Yorkshire College, Leeds; University of Adelaide; University of Athens; University College, Bristol; R. Universita di Catania; Universidade de Coimbra; University of Calcutta; University of California; University of Chicago; University College, Dundee; Université de Lille; University of London; University College, London; University College, Liverpool; University of Michigan; Université de Montpellier; University College of North Wales; University of Nebraska, U.S.A.; Université de Paris; Universita di Pisa; Universita di Padova; University of Pennsylvania; Universita di Roma; University of Sydney; University College of South Wales; University of Toronto; Faculty of Medicine, University of Toronto; Universita di Torino; Universiteit te Utrecht; University of Vermont; University College of Wales; Universität zu Wien.

Calcutta University.—Tagore law lectures. 1898.
Calcutta Sanskrit College.—Catalogue of manuscripts. 15, 16.
Caledonian Medical Society.—Caledonian medical journal. 1902.
Cambridge Philosophical Society.—Transactions. XIX. 2.—Proceedings. XI. 5-7, XII. 1.
Canadian Institute.—Transactions. VII. 2.—Proceedings. N.S. II. 5.
Sir James M. Campbell, LL.D.—Bombay Gazetteer. XVIII. 3 parts. XIX.
Rev. W. Campbell, F.R.G.S.—Formosa under the Japanese. 1902.
Cape of Good Hope Observatory.—Report for 1901.
William Warrand Carlile, M.A. The evolution of modern money.
The Carnegie Trust.—Second annual report.
A. K. Chalmers, M.D.—Report on smallpox. 1900-02.
Chartered Accountants of Scotland.—Official directory. 1902.
Professor T. K. Cheyne, D.D.—The Book of Isaiah in Hebrew.
David Christison, M.D.—Carvings on Scottish Kirkyard monuments.
The City Librarian, Glasgow.—Index catalogue of the Gorbals District Library.
The City Chamberlain, Glasgow.—Municipal accounts. 1901-02.
Clinical Society of London.—Transactions. XXXV.
Clydesdale Horse Society.—The Clydesdale stud-book. XXIV.
Cobden Club.—Avebury, Free Trade and British Commerce. And 7 other tracts.
College of Science, Tokyo.—Journal. XVI. 7-14, XVII. 7-10.
Columbia University, New York.—University quarterly. IV.—12 dissertations for the degree of Doctor of Philosophy.
Comitato per le Onorganze a Brioschi.—Brioschi, Opere matematice. II.
Mr. E. B. Convers, New Jersey.—Living by the Spirit. Embossed in New York point for the blind.
Professor Cormack.—Technical education in the University of London.
Corporation of the City of London.—Calendar of letter books. Letter book D.
Mr. John Coutts.—The spirit of truth as revealed in law.
Sir Henry Craik, K.C.B.—Secondary education (Scotland) report for 1902.
The Earl of Crawford. K.T.—Bibliotheca Lindesiana. Collation and notes. No. VI.
Sir John Neilson Cuthbertson.—One hundred Bible readings.
Mr. P. Cudmore, B.H.—Autobiography.
Department of Mines, Victoria, B.C.—Annual report for 1901.
Devonshire Hospital.—Annual report. 1901, 1902.
George Dickson, M.D.—Tuberculosis. II. 1-5.—Hunterian Club publications. Parts 66-68.—15 books and 9 pamphlets for Professorial department.—Two bound

volumes of pamphlets.—Laurie, Notes on moral theories.—Bowes, Biographical notes on Cambridge printers.—Cleghorn, Forests and gardens of So. India.—Japp, Robert Burns.

Direcion General de Estadistica, Uruguay.—Anuario estadistico. 1899-1901. 3 tomes. El movimiento del estado civil. 1900.—Comercio exterior movimiento de navegacion del Uruguay. 1901.

Direction Générale de la Statistique, de Buenos Ayres.—Annuaire. 1901.

Director General, Navy Department, Japan.—Report of the health of the Navy for 1899.

The Director, School of Medicine, Cairo.—Records of the Egyptian School of Medicine.

Mr. Edward S. Dodgson.—Three Baskish almanacs.—Four Baskish brochures.

Henry Dyer, D.Sc.—Financial annual of Japan. No. 2.—Laws and regulations relating to taxation in Japan.

Earthquake Investigation Committee, Tokyo.—Publications in foreign languages. Nos. 7-11.

Edinburgh Mathematical Society.—Proceedings. XX.

The Editor.—Journal of the science of osteopathy. III.

Dr. R. Ernest.—Buddhism and science.

Executive Committee of British Association, 1901.—Historical narrative of local arrangements.

Executive Committee of the Engineering Congress. 1901.—Report of the proceedings, etc.

Fairmount Park Art Association, Philadelphia.—Thirtieth annual report.

James Finlayson, M.D., LL.D.—Janus. 1902.

Foreign Office.—Situation de l'enseignement en Belgique. Rapport. 1898, 1899 et 1900.

Alexander Fraser, M.B.—Prevalence and mortality of pneumonia.

General Assembly of the Church of Scotland.—Report on the schemes for 1902.

Geological Survey of Canada.—Summary report for 1901.—Geological map. Western sheet, 783.—Macoun, Catalogue of Canadian plants. VII.—Whiteaves, Marine invertebrata of Eastern Canada.—Contributions to Canadian palaeontology. IV. 2.

Geological Survey of India.—General report. 1901-02.—Palaeontologia Indica. N.S. II. 1.—Memoirs. XXXII. 3, XXXIV. 2, XXXV. 1.

Geological Survey of Scotland.—Geikie, Geology of Eastern Fife.—Hinxman, Geology of lower Strathspey.

M. Emil Gielkens.—Une modification à la loi sur le droit d'auteur.—La liberté individuelle. II.

Glasgow Archæological Society.—Report. 1900-01.—Transactions. N.S. IV. 2.

Glasgow Corporation Tramways.—Abstract of revenue and expenditure. 1901-02.

Glasgow Fever Hospital, Belvidere.—Report. 1900-01, 1901-02.

Vve. J. B. André Godin.—Le Devoir. 1902.—Godin, Solutions sociales.—Godin, La republique du travail.—Godin, Le gouvernement et la vrai socialisme.

Government of Bombay.—Progress report of Archæological Survey. 1901-02.—Naegamvala, Total solar eclipse of January, 1898, as observed in Western India.

Government of Mysore.—Epigraphia Carnatica. II., III., V.

Government of U.P. of Agra and Oudh.—Annual report of Archæological Survey. 1901-02.

Mr. Gavin Greenlees.—The Yasna translated by G. Greenlees from the French, and other MSS. in 1 vol.—Cuneiform and other texts. Compiled by G. Greenlees.

Mr. Karl T. E. Gronau.—Das Parallelenproblem.

Sheriff Guthrie.—The Chalmers and Trail ancestry of Dr. Guthrie's descendants.

C. O. Hawthorne, M.D.—Prevention of heart disease in rheumatic children.—On intercranial thrombosis as the cause of double optic neuritis.

Mrs. Herkless.—Herkless, Jurisprudence.

William H. Hill, LL.D.—Early records of an old Glasgow family.

Hobson, On the infinite and infinitesimal in mathematical analysis.

Rev. William H. Hodge.—New exposition of the will. 1900.

Thomas Hunter, M.A.—History of philosophy.

Imperial Department of Agriculture, West Indies.—West Indian bulletin. III. 1-3.—Pamphlet series. 14-20.

Imperial University of Tokyo Medical Faculty.—Mittheilungen. V. 2, 4.

L'Institut internationale de Bibliographie.—L'Institut: but, organisation, travaux.—Conference bibliographique. 1897.—Manuel pour l'usage du répertoire bibliographique des sciences physiques.—Annuaire. 1902.

Institute for Medical Research.—Wright, Malarial fevers of British Malaya.

Institution of Civil Engineers.—Minutes of proceedings. CXLII.-CL.—Charter, by-laws and list of members. 1902.

Institution of Engineers and Shipbuilders.—Transactions. XLV.

Institution of Mechanical Engineers.—Proceedings. 1901. 4, 5. 1902. 1-3.—List of members, etc. 1902.

Institution of Naval Architects.—Transactions. Vol. 44.

International Engineering Congress, Glasgow.—Proceedings. 2 vols.—Industries of Glasgow.

Iowa Geological Survey.—Annual report. 1901.

Johns Hopkins University.—American journal of mathematics. XXIV.—Thirty-four dissertations.

Karl Franzens Universität in Graz.—Canstein, Zweck des Civilprocesses.

Mr. Arthur Kay.—The Corporation of Glasgow as owners of shops, tenements, and warehouses.

His Majesty The King.—Birch, Description of the Papyrus of Nas-khem Priest of Amen-Ra. 1863.

King's College Hospital, London.—Report. VII.

Kolozsvar University.—Joannis Bolyai in memoriam.—Thirteen dissertations.

Krakow University.—Ksiega pamiatkowa. Piecsetletniego jubilenszu odnowienia Universytetu Jagiellonskiego. 1400-1900.

Dr. Carl Lauenstein, Hamburg. Sixty-eight surgical papers.

Library of Congress.—Report of the Librarian for 1900-01.—List of books on Samoa and Guam.—Handbook of the new Library.—Griffin, List of books relating to trusts.—List of references on reciprocity.

Library of Harvard University.—Yust, Bibliography of Justin Winsor.

Mr. John Lindsay.—Acts of Parliament relating to the Glasgow Police.—Glasgow buildings regulations act. 1 00.

Literary and Philosophical Society of Liverpool.—Proceedings. LXI.

Lloyd's Register of British and Foreign Shipping.—Lloyd's Register. 1902-3. 2 vols —Rules and regulations. 1902-3.

Local Government Board.—Report of the Medical Officer for 1900-01.—Low, Reports on bubonic plague.—On lead-poisoning and water supplies.

Lords of H.M.'s Treasury.—Ordnance survey of Jerusalem. Set of 5 unmounted plans. Wilson's Notes. Vol. I. 78 Photographs.—Ordnance survey of Sinai. Part I. Notes. Part 2. 10 unmounted plants. Part 3. Vol. I. 36 photographs. Vol. II. 34 photographs. Vol. III. 11 photographs.—Journals of the House of Lords. 133.—Journals of the House of Commons. 156.—Accounts of the Lord High Treasurer of Scotland. IV.—Registers of the Privy Council of Scotland. 2nd series. IV.—Acts of Parliament: Public, Local, and Private. 1902.

Rev. Robert Lorimer, M.A.—Lorimer, Grammar of Waziri Pushto. 1902.

M. le Duc de Loubat.—Codex Fejervary-Mayer. English edition.—Codex Vaticanus No. 3773. Eine altmexicanische Bilderschrift.

Mr. James Love.—A new Gospel.—Watering capital.

L. A. Lucas, M.A.—Twenty epigrams.

Professor MacLean, D.Sc.—Electrical Engineer. XXVII. 18-26, XXVIII., XXIX. 1-12. —Transactions of the Celtic Society of Glasgow. I., II.

James J. MacLehose, M.A.—Annual of the British School at Athens. Nos. V., VII.—Tarbell, History of Greek art. And 28 other volumes.

Miss MacLehose.—Shee, The Briton's first duty.

Alexander M'Lennan, M.B.—Münchener medicinische Wochenschrift. 1902.

M'Gill Medical College, Montreal.—Studies from the Victoria Hospital. I. 2, 3.—Nicholo, Notes on a case of accessory pancreas. And 2 other pamphlets.

Mr. David MacRitchie.—Hints of evolution in tradition.

John C. M'Vail, D.P.H.—Eleventh report to the County Council of Dumbarton and to the County Council of Stirling.

Manchester Literary and Philosophical Society.—Memoirs and Proceedings. XLVI. 3-6; XLVII. 1, 2.

Dr. L. Mangialli.—The iodo-bromide baths of Salice.

Mr. Mann and Mr. Burrell.—Pictures in the reception rooms of the Art Galleries of the Glasgow Exhibition. 1901.

Marine Biological Association, Millport.—Report for 1901.

Massachusetts Institute of Technology.—Annual catalogue. 1901-2.

Medical Faculty of the State of Maryland.—Transactions. 1902.

Medical Officer of Health, Glasgow.—Report. 1901.

Herr E. Merck, Darmstadt.—Annual report. 1901

The Middlesex Hospital.—Reports of the Registrars for 1900.
Mineralogical Society, London.—Mineralogical magazine. 60, 61.
Ministero della Pubblica Istruzione, Italy.—Opere di Galileo. XII.
Rev. Andrew Moody, D.D.—Israeli's return and other verses.
Municipalidad del Rosario de Santa Fe.—Primer censo municipal. 1902.
A. Campbell Munro, D.Sc.—Eleventh report upon the health of the County of Renfrew.
Dr. David Murray.—Catalogus Bibliothecae Harleianae. 4 vols.—The Faculty of Procurator's pew.—Regio Museo di Torino ordinato e descritto da Fabretti, Rossi, Lanzone. 4 vols. in 3.—The works of Shakespeare: in 8 vols. By Mr. Theobald. 1767.
James Murray's Asylum, Perth.—Seventy-fifth annual report.—Excelsior. April, July, 1902.
Museo Civico di Padova.—Bollettino. V. 3-8.
Museum of College of Surgeons of England.—Catalogue of the physiological series. II.
Natural History Society of Glasgow.—Transactions. VI. 2.
National Academy of Sciences, Washington.—Memoirs. VIII. 6.
Thomas Goodall Nasmyth, M.D.—11th report on the sanitary condition of Fife.—6th report on the sanitary condition of Kinross-shire.—11th report on the sanitary condition of Clackmannanshire.
New York Public Library.—Bulletin. VI.
Gustavo Niederlein.—Ressources végétales des colonies françaises.
North London or University College Hospital.—Report of the Surgical Registrar for 1899 and 1900.
Oficina de Deposito Reparto, Uruguay.—Colon-guia.
Thomas Oliver, M.D.—Dangerous trades. 1902.
Pathological Society of London.—Transactions. LIII.
James Paton, F.L.S.—Report on museums and galleries. 1901.
Philosophical Society of Washington. Bulletin. XIV.
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DIVINITY HALL LIBRARY.

This Library is set apart for the special use of students in Divinity. It contains an extensive collection of Theological works. It is supported chiefly by an annual grant from the University Court of Seven Shillings for each student attending the Divinity classes.

The Librarian is elected annually by the students attending the Hall.

HUNTERIAN MUSEUM.

This Museum was founded by the eminent William Hunter, M.D., who was born in 1718, at Cantieswell or at Long Calderwood, in the Parish of East Kilbride, Lanarkshire. By his will, dated 1783, he bequeathed to the Principal and Professors of the College, and their successors in office, his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens, and archaeological relics, and appropriated £8,000 for the erection of a building for their reception and preservation.

The building erected in 1804 became the property of the Union Railway Company, as explained at page 32. But accommodation has been provided for the collections in the new buildings at Gilmorehill. The Museum occupies the north side of the eastern quadrangle, and consists of two halls, the upper of which is galleried.

The Hunterian Museum is under the immediate superintendence of the Museums Committee, consisting of two members of the University or others, not being members of Senate, appointed by the University Court, and of four members of Senate, appointed by the Senate. All reports by this Committee are, in the first instance, received by the Senate, and the Senate has power, subject to the review of the University Court, to confirm, modify, or reject the recommendations in such reports.

Numismatists desirous of consulting the cabinet of medals should communicate with the Curator a few days before the date of their proposed visit.

The Museum is now open to the public from 11 to 3 in winter, 11 to 4 in summer; admission sixpence.

1. *Stevenson Catalogue of Greek Coins.* Pts. I. and II. By Geo. Macdonald, M.A. With 62 plates. Price £6 6s.
2. *Tituli Hunteriani: Catalogue of Roman Stones.* By James Macdonald, LL.D., Annan. Price 10s. 6d.
3. *Bellahouston Catalogue of Anatomical and Pathological Preparations.* By J. H. Teacher, M.B., C.M. 2 vols. 8vo. Price to students, 2s.
4. *William Hunter: Physician, Anatomist, Founder of the Hunterian Museum.* By Professor John Young, M.D.

The revenue derived from the admission fee has been hitherto the only fund available for the maintenance and extension of the collection. Donors of specimens are entitled to free admission. Each matriculated student has the privilege of introducing two friends three times during the session.

Donations to Museum.

The following donors have contributed to the Museum during the past year :—

Dr. M'Kellar, George Macdonald, M.A., Peter Jamieson, John Mackay, Junr., W. Gordon Logie, Robert Brydall, Dr. W. H. Turner, and Dr. Boedeker.

In addition to the annual gifts by friends, among whom in former years were conspicuous Mr. Robert Gray, Dr. D. Robertson, Rev. Dr. H. Crosskey, J. Lumsden of Arden, the late Geo. Paterson, Prof. J. Nichol, Captain W. Ramsay, Dr. R. Walker, D. A. Frew, the following large collections have been added:—In 1875 Miss Brown of Lanfine divided her father's mineral collection between the Universities of Glasgow and Edinburgh: in 1896 she gave a further group of polished amethyst, marble, and jade cups and tessaræ, with some enamels; in 1898 she bequeathed a signed copy of the Solemn League and Covenant, a cabinet of minerals, antiquities from various localities, and the portrait of her father, Dr. Brown, now in the Museum Hall. The family of the late F. A. Eck, Esq., of Hollybush, presented his collection of minerals, over 3000 specimens, one cabinet representing the minerals of Central and Southern America, the other containing European specimens. To this Miss Eck added, in 1896, 150 precious stones. The antiquities of Peru, etc., are well represented. In 1895, T. Graham Young, Esq., of Limekilns, presented a large series of Etruscan, Greek, and Roman pottery, as well as of medieval ceramics and glass. In 1899 Mr. and Mrs. Campbell of Tullichewan gave an important group of vases, and several interesting specimens were presented by Mrs. Eustaec Smith, of Algiers. All these, with a previous selection of Cyprus pottery and glass, the gift of Robert Walker, Esq., of Lethamhill, are shown in the Library. In 1888 the Governors of the West of Scotland Technical College made over to the Hunterian Museum the Zoological and Ethnological Museum of the Andersonian University (later known as Anderson's College, and now merged in the Technical College), the space being required for collections bearing on subjects taught in the College. Technical students have admission to the Hunterian Museum for purposes of study. The collection so transferred, of great value and extent, represents the generosity of the naturalists and merchants of Glasgow, to whom the Hunterian is also under great obligations.

James Stevenson, Esq., of Hailie, has defrayed the cost of the Catalogue of Greek Coins, and the Bellahouston Trustees that of the Anatomical Catalogue. The

Catalogue of the Printed Books is completed in manuscript, as is that of the MSS. in the Library. Rev. Thomas Weir, B.D., prepared the Catalogue of Syrian MSS. published by the Asiatic Society of London. Other catalogues are in course of preparation.

BOTANIC GARDEN.

A piece of ground adjoining the old College was for many years set apart as a Botanic Garden, for the use of the Lecturer on Botany; but the great increase of manufactories and other buildings in its vicinity having rendered it unfit for such a purpose, the University, in 1817, agreed to subscribe £2,000 towards the formation of a new Botanic Garden then projected by the citizens of Glasgow, on condition that a Lecture-Room should be erected within it for the exclusive use of the Professor of Botany and his pupils—that every facility should be given them in prosecuting the study of Botany—and that three Directors of the Institution should be annually appointed by the Faculty of the College, to represent and protect the interests of the University. The Garden to which this agreement referred was completed and opened to the public in 1819. A Lecture-Room, in which the Professor of Botany delivered an annual course of Lectures during the summer months, was built; and the collection of plants, from the zeal and ability of the Superintendent, and the favourable situation of Glasgow, had become one of the richest and most valuable in the island. The extension of the town again compelled the removal of the Garden to its present site in Hillhead, at a greater distance from the old College, so that the Professor, while he continued to give in it the practical portions of the course (*Demonstrations*), found it more convenient to deliver his Lectures at the University. The removal of the University to Gilmorehill brought it nearer the Botanic Garden, but the Lecture-Room in the Garden being inadequate for the students attending the course of Elementary Lectures on Botany, and there being no Laboratory, Museum, or Herbarium-Room in the Garden, the Professor has continued to deliver his Lectures and to have his Laboratory at the University. Suitable buildings for the Botanical department have now been erected within the University grounds, and include Lecture Room, Museum, Herbarium, Laboratories, and other rooms.

MARINE BIOLOGICAL ASSOCIATION OF THE WEST OF SCOTLAND.

The station of the Association is situated near Keppel Pier, in the island of Cumbrae, and was opened in May, 1897. A constitution was adopted at a meeting of the Association held on 15th January, 1901. The chief object which the promoters have in view is to afford opportunities for the investigation of the Marine Fauna and Flora of the district known as the Clyde Sea Area, or of other parts of the West Coast of Scotland. A practical laboratory has been provided and equipped, and one of the tables in it, for which the University Court subscribes, is called the University Table. The nomination of students to the privilege of working at this table is made by the Senate on the report of the Professors of Natural History and Botany. Applications should be addressed to the Clerk of Senate.

IX.—GRADUATION IN THE SEVERAL FACULTIES.

EXAMINERS.

Preliminary Examinations in Arts, Science, and Medicine.

The University Court of each University annually appoints as Examiners such number of Professors or Lecturers in the Faculty of Arts in that University, and such additional Examiners as may be deemed necessary. The Preliminary Examinations in Arts, Science, and Medicine are conducted by these Examiners, under the control and supervision of a Joint-Board appointed in January of each year by the several University Courts from among the Examiners, according to a scheme of rotation prescribed in Ordinance No. 13, Section IV., as supplemented by Ordinance No. 43, Section I. The Joint-Board holds office from the first day of February to the thirty-first day of January in the succeeding year, and sits at each University in rotation in the following order:—Edinburgh (1901-2), Glasgow (1902-3), Aberdeen (1903-4), St. Andrews (1904-5). It consists of eight Professors or Lecturers and eight additional Examiners, two Professors or Lecturers and two additional Examiners being appointed by the University Court of each University, according to the scheme printed on p. 184. In the case of a candidate at a Preliminary Examination who is permitted to offer himself for examination in any language not included in the Preliminary Examination, each University makes special arrangements for the examination of its own candidates.

UNIVERSITY.	1893 and every Fourth Year thereafter (1905).	1894, and every Fourth Year thereafter (1906).	1895, and every Fourth Year thereafter (1907).	1896, and every Fourth Year thereafter (1904).
ST. ANDREWS,	English (Professor).	English (Professor).	English (Additional Examiner).	English (Additional Examiner).
	Classics (Additional Examiner).	Classics (Professor).	Classics (Professor).	Classics (Additional Examiner).
	Mathematics and Dynamics (Additional Examiner).	Mathematics and Dynamics (Additional Examiner).	Mathematics and Dynamics (Professor).	Mathematics and Dynamics (Professor).
	Modern Languages (Professor or Lecturer).	Modern Languages (Additional Examiner).	Modern Languages (Additional Examiner).	Modern Languages (Professor or Lecturer).
GLASGOW,	English (Additional Examiner).	English (Professor).	English (Professor).	English (Additional Examiner).
	Classics (Additional Examiner).	Classics (Additional Examiner).	Classics (Professor).	Classics (Professor).
	Mathematics and Dynamics (Professor).	Mathematics and Dynamics (Additional Examiner).	Mathematics and Dynamics (Additional Examiner).	Mathematics and Dynamics (Professor).
	Modern Languages (Professor or Lecturer).	Modern Languages (Professor or Lecturer).	Modern Languages (Additional Examiner).	Modern Languages (Additional Examiner).
ABERDEEN,	English (Additional Examiner).	English (Additional Examiner).	English (Professor).	English (Professor).
	Classics (Professor).	Classics (Additional Examiner).	Classics (Additional Examiner).	Classics (Professor).
	Mathematics and Dynamics (Professor).	Mathematics and Dynamics (Professor).	Mathematics and Dynamics (Additional Examiner).	Mathematics and Dynamics (Additional Examiner).
	Modern Languages (Additional Examiner).	Modern Languages (Professor or Lecturer).	Modern Languages (Professor or Lecturer).	Modern Languages (Additional Examiner).
EDINBURGH,	English (Professor).	English (Additional Examiner).	English (Additional Examiner).	English (Professor).
	Classics (Professor).	Classics (Professor).	Classics (Additional Examiner).	Classics (Additional Examiner).
	Mathematics and Dynamics (Additional Examiner).	Mathematics and Dynamics (Professor).	Mathematics and Dynamics (Professor).	Mathematics and Dynamics (Additional Examiner).
	Modern Languages (Additional Examiner).	Modern Languages (Additional Examiner).	Modern Languages (Professor or Lecturer).	Modern Languages (Professor or Lecturer).

Degrees in Arts.

The Examiners for Degrees in Arts are the Professors whose subjects qualify for Graduation in Arts, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

Degrees in Science.

The Examiners for Degrees in Science are the Professors whose subjects qualify for Graduation in Science, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

Degrees in Medicine.

The Examiners for Graduation in Medicine are the Professors whose subjects qualify for Graduation in Medicine, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary, such provision being made as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

No person is eligible for appointment to the office of additional Examiner, whether for Preliminary Examination or for Degrees in Arts, Science, or Medicine, who is a Professor, Lecturer, or University Assistant or Demonstrator in any Scottish University, and the appointment of any additional Examiner during the currency of his term of office to a Professorship, Lectureship, or to the office of University Assistant or Demonstrator in any Scottish University is held to vacate his office of Examiner. The periods of appointment of additional Examiners are so adjusted as to secure that all the Examiners shall not vacate their office at the same time ; but no Examiner can be appointed for a longer period than four years, and no person who has held the office of Examiner for a period of three or four years is eligible for reappointment to the office of Examiner in the same University until he has ceased to hold the office of Examiner in such University for not less than one year.

In the event of a vacancy in the office of a member of the Joint-Board, or of an Examiner or additional Examiner in Arts, Science, or Medicine, occurring otherwise than by expiration of his term of office, the person appointed in his room is appointed for the remainder of such term only.

Degrees in Law.

The Examiners for the Degree of Bachelor of Laws are the Professors of or Lecturers on the subjects included in the examinations for the said degree, and additional Examiners appointed by the University Court.

The Examiners for the Degree of Bachelor of Law are the Professors of or Lecturers on the subjects included in the examinations for the said degree, and additional examiners appointed by the University Court.

Degrees in Divinity.

The Examiners for the Degree of Bachelor of Divinity are the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court.

REGULATIONS FOR GRANTING DEGREES.

I. GRADUATION IN ARTS.

Regulations applicable to all who have entered on their Academical Course since 1st October, 1892.

The conditions on which the Degree of Master of Arts is now conferred are regulated by Ordinances No. 11,[1] No. 44, No. 148, No. 160, and No. 168 of the Universities Commission (1889), the principal provisions of which are the following :—

I. The Academical year in each University shall commence on the first day of October. The classes shall meet for the winter session (which shall include not less than twenty teaching weeks) on such day thereafter as the Senatus of each University shall determine; and shall close not later than the tenth day of the following April.

The University Court of each University shall institute a summer session in such of the subjects or branches of subjects qualifying for graduation in Arts as may be determined by the said Court after consultation with the Senatus. Such session shall commence on such day as the Senatus of each University shall determine, and shall include ten teaching weeks at least. The classes shall be conducted by the Professors, or by Lecturers appointed under Ordinance No. 17 (Regulations as to Assistants and Lecturers).

II. The Curriculum for the Degree of Master of Arts (M.A.) shall extend over not less than three winter sessions, or two winter sessions and three summer sessions.

Preliminary Examination.[2]

III. (1) Before entering on the Curriculum (subject to the proviso contained in Section IV., Sub-section 1) each student shall pass a Preliminary Examination in the following subjects :—

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[1] This ordinance was printed in full in the *University Calendar* for 1892-93 pp. 477-485, and the modifications made by Ordinance No. 44 were inserted in italics in the *University Calendar* for 1894-95.

[2] Supplementary Regulations issued by the Joint Board on 31st January, 1902, have been inserted in smaller type at the points in the ordinances to which they relate.

1. English.
2. Latin or Greek.
3. Mathematics.
4. One of the following:—Latin or Greek (if not already taken), French, German, Italian (or such other language as the Senatus Academicus may approve), Dynamics.

Under this sub-section the Senate has approved of (1) Japanese, (2) Spanish. Any candidate who proposes to be examined in Japanese or Spanish or in any other language than the six mentioned in the Ordinance is required to make intimation to the Senate before 1st February or 1st July for the Spring and Autumn Examinations respectively.

(2) The examination must be passed in the matters and on the standards hereinafter defined; but there shall be a higher and a lower standard in Latin and in Greek, and a higher, an intermediate, and a lower standard in Mathematics.

Candidates must pass on the higher standard in at least one of these three subjects, and may pass on the lower standard in either or both of the remaining two; subject always to the conditions relative to attendance contained in Section IV. hereof.

(3) English shall include Grammar and Composition, and the outlines of Geography and British History, and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

In the case of a foreign student, whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint-Board of Examiners may deem sufficient.

The Joint-Board has issued the following directions showing the character of the papers to be set in English:—

English will include (*a*) Grammar, (*b*) Composition, (*c*) Literature, (*d*) History, and (*e*) Geography.

- (*a*) Grammar will include Analysis, Parsing, Derivation, and Correction of Sentences.
- (*b*) Composition will include an Essay and Paraphrasing.
- (*c*) Literature will comprise a knowledge of certain prescribed books of two or three writers. Questions requiring a general knowledge of the life and works of the greater writers will not be set; but one or two questions may be set, giving an opportunity to candidates who have read widely in English Literature to show their knowledge. The prescribed books will be:—For 1903, Shakespeare, *Coriolanus*; Scott, *Fortunes of Nigel*; Carlyle, *Essay on Burns*. For 1904, Shakespeare, 1*st Henry IV.*; Scott, *Rob Roy*; Macaulay, *Essay on Milton*.
- (*d*) History will include a knowledge of one of the three following periods, questions in each of which will be set in each examination, viz.: The outlines of the History of both England and Scotland (*a*) from the Roman Occupation to 1603; (*b*) from 1603 to the Union of the Parliaments in 1707; (*c*) from the Union of the Parliaments to the Reform Bill of 1832.
- (*e*) Geography will include a general knowledge of the Geography of the World, and a special knowledge of the Geography of the British Empire.

(4) Latin and Greek shall comprise grammatical questions, translation into English from Latin or Greek authors not previously prescribed, and translation of plain passages or easy sentences from English into Latin

or Greek. The higher standard shall not be lower than that presently [before October, 1892] adopted in the examination for a Curriculum of three sessions, or for the Higher Grade Leaving Certificate of the Scotch Education Department, and the lower standard shall not be lower than that presently adopted for the Lower Grade Leaving Certificate of the said Department.

The Latin examination on the higher standard will include Translation, Prose Composition, Grammar, and Sentences.

The Greek examination on the higher standard will include Translation, Sentences (or an easy passage of continuous English Prose, set either as an alternative or as a substitute), and Grammar.

The passages for translation both from Greek and Latin will include Prose and Verse.

The Latin examination on the lower standard will include Translation and Parsing, Prose Composition, Grammar, and Sentences.

The Greek examination on the lower standard will include Translation, Sentences, and Grammar.

In the Latin and the Greek papers both on the higher and lower standards, candidates are required to satisfy the Examiners both in Composition and in Translation.

Candidates who, having taken in Latin or Greek the examination on the higher standard, have failed to pass on that standard, but have obtained a percentage of marks equivalent to a pass on the lower standard, may be held by the Board to have passed the examination on the lower standard.

(5) French, German, and Italian shall comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian authors not previously prescribed, and translation from English into French, German, or Italian; and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

For the examination in French and German—

Two papers shall be set, both in French and German—an hour and a half being allowed for the first paper, and two hours for the second; the first paper will contain a passage for translation from English into French or German, with some short sentences of an idiomatic character; the second paper will contain a set of grammatical questions, two passages for translation into English (one in verse, one in prose), and a selection of literary or philological questions, from which the candidate will be allowed to choose *one only*. A higher value is attached to the first paper in both French and German.

The questions on Literature will be confined, year by year, to certain groups of authors, as in the following scheme, viz.:

FRENCH.—(i.) In April and October, 1903 (19th century)—Chateaubriand, Madame de Staël, Lamartine, Victor Hugo, Alfred de Musset, Alexandre Dumas, George Sand, Balzac, Prosper Mérimée, Guizot, Thiers, Mignet, Michelet. (ii.) In April and October, 1904 (17th century)—Pascal, Descartes, Corneille, Racine, Molière, Boileau, La Fontaine, Madame de Sévigné, Bossuet, Fénelon, La Rochefoucauld, La Bruyère.

GERMAN.—(i.) In April and October, 1903—Jean Paul, the Schlegels, Novalis, Tieck, Arnim, Brentano, Grillparzer, Heine, Uhland. (ii.) In April and October, 1904—Klopstock, Wieland, Lessing, Herder, Bürger, Voss, Friedrich Leopold Stolberg, Hölty, Leisewitz.

(6) Mathematics on the lower standard shall comprise—(*a*) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest; (*b*) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (*c*) Geometry: Euclid, Books I., II., and III. (or their equivalents), with easy deductions. Demonstrations other than Euclid's

will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration.

(7) Mathematics on the intermediate standard shall include the following, in addition to the subjects included in the lower standard, viz.:—(*a*) Euclid: Book VI., Propositions 1—19, or Geometry equivalent thereto. (*b*) Algebra: Quadratic Equations, Ratio and Proportion. (*c*) The Trigonometry of Right-angled Triangles.

(8) Mathematics on the higher standard shall, in addition to what is included on the lower standard, comprise Euclid, Books IV., VI., and the first twenty-one propositions of Book XI. (or their equivalents), with Deductions, Quadratic Equations, Trigonometry to the Solution of Triangles inclusive, and the use of Logarithmic Tables.

In the examination in Mathematics on the higher and intermediate, and on the lower standards each question in Geometry will consist of two parts, of which one will be an easy deduction or illustrative exercise on the proposition set as bookwork.

The papers in Mathematics on the higher standard and on the intermediate standard will be devoted to the various subjects comprised in them as nearly as possible in the following proportions: two-fifths to Geometry, two-fifths to Algebra (including Arithmetic, if thought desirable), and one-fifth to Trigonometry.

Candidates for the higher standard may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

The pass-mark for candidates on the intermediate standard is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the intermediate standard; but such candidates will receive credit for any question they may answer.

The paper in Mathematics on the lower standard will be devoted to the various subjects comprised in as nearly as possible the following proportions: four-ninths to Geometry, three-ninths to Algebra, and two-ninths to Arithmetic.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

(9) Dynamics shall mean the Elementary Statics and Kinetics of Solids, Liquids, and Gases.

The paper on Dynamics will be directed to test the candidate's knowledge of the fundamental principles of the subjects included in it. As far as possible each question will consist of two parts, one of which will be a numerical or other simple illustrative example of the principle with which the other part of the question deals. About one-seventh of the paper will be devoted to Kinematics, and the remainder of the paper will be assigned to Kinetics, Statics, and Hydrostatics in as nearly as possible equal proportions.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each section of the paper.

Dynamics shall include the following:—(*a*) *Kinematics*. Displacements, velocities and accelerations of a moving point, with their compositions and resolutions. Translation of a rigid body. Relative velocity of two moving points. (*b*) *Kinetics*. The laws of motion. Momentum, force, energy, work—their measures in the British and C.G.S. systems of units. Change of units. Rectilinear motion of a particle under the action of constant forces. Free motion of a body under gravity, including projectiles. Atwood's machine. Impulsive forces. Direct impact of smooth spheres. (*c*) *Statics*. Composition and resolution of co-planar forces. Theory of co-planar couples. Conditions of equilibrium of forces in one plane. Centre of mass. Friction. Machines. Application of the principle of work to machines. (*d*) *Hydrostatics*. Definitions of *solid*, *fluid*, *liquid*, *gas*. Viscosity. Measure of the pressure at a point of fluid. Law of equable transmission of pressure. Laws of variation of pressure in heavy liquids. Resultant pressure of a heavy liquid on a plane surface, including the centre of pressure of a plane surface. Principle of Archimedes. Experimental determination of the densities of solids, liquids, and gases. Atmospheric pressure. The barometer. Boyle's Law. The siphon, pumps for liquids, air pumps, and the diving-bell.

Questions may be set which involve the Trigonometry of Right-angled Triangles.

(10) A candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; provided that he may *offer himself for re-examination* as often as may be necessary *to satisfy this condition.*[1]

IV. (1) Attendance on any class shall not qualify for graduation, unless the whole Preliminary Examination has been previously passed. *Any student who has passed in Latin, Greek, or Mathematics on the higher standard may attend a qualifying class in such subject or subjects without having passed in the other subjects of the examination, provided always that* (a) *no candidate shall be allowed to present himself for examination in any subject qualifying for graduation until he has passed the whole Preliminary Examination; and* (b) *no student shall be admitted to a degree in Arts unless he has attended qualifying classes in the University granting the degree, or in another Scottish University, as provided by Section XXV. hereof, for three academic years after he has completed his Preliminary Examination.*[1]

(2) Attendance on a class in any language included in the Preliminary Examination shall not qualify for graduation, unless the candidate, before entering the class, has passed the Preliminary Examination in that subject, and on the higher standard where a double standard is provided. He may, for that purpose, attend any Preliminary Examination held during the course of his study, taking only the paper set in that subject; provided always that the provisions of the sub-section immediately preceding shall have been satisfied.

(3) Attendance on a class in any language not included in the Preliminary Examination shall not qualify for graduation, unless the candidate has previously passed an examination in that language on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination.

(4) Attendance on a class of Mathematics or Natural Philosophy shall not qualify for graduation unless the candidate, before entering the class, has passed in Mathematics on the higher standard or on the intermediate standard.

V. (1) The Preliminary Examination shall be held at each University twice in each year, under such regulations as the Senatus, with the approval of the University Court, shall from time to time determine, and shall be conducted in writing.[2]

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[1] The words in italics are taken from a supplementary Ordinance No. 44, which was approved by Her Majesty in Council on 28th May, 1894, and came into force on 1st October, 1894. The ordinance provides that the alterations on Sections III. (10) and IV. (1) shall be held to have come into force on 1st October. 1892.

[2] For dates of Preliminary Examinations see Table on page 191.

ELD DURING SESSION

I. ARTS AND SCIENCE.

Fee.	Names to be given in and Fees paid to Assistant-Clerk[1] (Matriculation Office). Date.	Subject.	Dates of Examinations and Hours at which the various Papers will be set.	
10s. 6d. 10s. 6d.	7th September or 4th March.	English (1st Paper),	Friday, 25th September, 9 to 11 a.m.	Friday, 25th March, 9 to 11 a.m.
		Higher Latin (1st Paper),	Friday, 25th September, 12 noon to 2 p.m.	Friday, 25th March, 12 noon to 2 p.m.
		Lower Latin,	Friday, 25th September, 3 to 6 p.m.	Friday, 25th March, 3 to 6 p.m.
		English (2nd Paper),	Saturday, 26th September, 9 to 11 a.m.	Saturday, 26th March, 9 to 11 a.m.
		Intermediate and Higher Math. (1st Paper)	Saturday, 26th September, 12 noon to 2 p.m.	Saturday, 26th March, 12 noon to 2 p.m.
		Lower Greek	Saturday, 26th September, 3 to 6 p.m.	Saturday, 26th March, 3 to 6 p.m.
		Higher Latin (2nd Paper),	Monday, 28th September, 9 to 11 a.m.	Monday, 28th March, 9 to 11 a.m.
		Intermediate and Higher Math. (2nd Paper),	Monday, 28th September, 12 noon to 2 p.m.	Monday, 28th March, 12 noon to 2 p.m.
		Lower Mathematics	Monday, 28th September, 3 to 6 p.m.	Monday, 28th March, 3 to 6 p.m.
		Higher Greek (1st Paper),	Tuesday, 29th September, 9 to 11 a.m.	Tuesday, 29th March, 9 to 11 a.m.
		French (1st Paper),	Tuesday, 29th Sept., 12 noon to 1.30 p.m.	Tuesday, 29th March, 12 noon to 1.30 p.m.
		Dynamics,	Tuesday, 29th September, 3 to 6 p.m.	Tuesday, 29th March, 3 to 6 p.m.
		Higher Greek (2nd Paper),	Wednesday, 30th September, 9 to 11 a.m.	Wednesday, 30th March, 9 to 11 a.m.
		French (2nd Paper),	Wednesday, 30th September, 12 noon to 2 p.m.	Wednesday, 30th March, 12 noon to 2 p.m.
		German (1st Paper),	Wednseday, 30th September, 3 to 4.30 p.m.	Wednesday, 30th Marth, 3 to 4.30 p.m.
		German (2nd Paper),	Thursday, 1st October, 9 to 11 a.m.	Thursday, 31st March, 9 to 11 a.m.
		Italian (1st Paper),	Thursday, 1st October, 12 noon to 1.30 p.m.	Thursday, 31st March, 12 noon to 1.30 p.m.
		Italian (2nd Paper),	Thursday, 1st October, 3 to 5 p.m.	Thursday, 31st March, 3 to 5 p.m.

II. MEDICINE.

10s. 6d. 10s. 6d.	7th September or 4th March.	English,	Friday, 25th September, 9 a.m. to 12 noon.	Friday, 25th March, 9 a.m. to 12 noon.
		Latin,	Friday, 25th September, 3 to 6 p.m.	Friday, 25th March, 3 to 6 p.m.
		Greek,	Saturday, 26th September, 3 to 6 p.m.	Saturday, 26th March, 3 to 6 p.m.
		Mathematics,	Monday 28th September, 3 to 6 p.m.	Monday, 28th March, 3 to 6 p.m.
		French,	Tuesday, 29th September, 12 noon to 3 p.m.	Tuesday, 29th March, 12 noon to 3 p.m.
		German,	Wednesday, 30th September, 3 to 6 p.m.	Wednesday, 30th March, 3 to 6 p.m.

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[1] For Women students, Miss Galloway, Queen Margaret College.

(2) The Joint-Board of Examiners to be appointed under the provisions of Ordinance No. 13 (Regulations as to Examinations) shall have power to accept the Higher Grade Leaving Certificate of the Scotch Education Department in any subject as an equivalent for the Preliminary Examination in that subject; and to accept the Lower Grade Leaving Certificate of the said Department as an equivalent for the Preliminary Examination on the lower standard in Latin, Greek, and Mathematics; provided they are satisfied that the standard of the examination, at which the said certificates were granted, is not lower than that required by this ordinance.

Under this sub-section the Joint-Board of Examiners has resolved as follows:—For the Preliminary Examination in Arts and Science the Higher and Honours Grade Leaving Certificate Examinations of the Scotch Education Department in Latin, Greek, and Mathematics will be accepted as equivalent to the higher standard in each of these subjects, as prescribed by the Arts Ordinance, and the Lower Grade Certificate Examinations to the lower standard; the Higher and Honours Grade Leaving Certificate Examinations in English, in Modern Languages, and in Dynamics will be accepted as equivalent to the standard prescribed for each of these subjects by the Arts Ordinance.

(3) The Joint-Board of Examiners shall have power to determine what examinations, if any, other than those for the Leaving Certificates of the Scotch Education Department, may be accepted as equivalent to the Preliminary Examination in whole or in part, provided they are satisfied that such other examinations are in fact equivalent thereto.

Under this sub-section the Joint-Board has resolved as follows:—

(*a*) A Degree in Arts or in Science, not being an Honorary Degree, in any of the Universities of the United Kingdom, shall exempt from the Preliminary Examination in Arts or in Science, as the case may be.

(*b*) A Certificate of having passed in the Honours or First Division in English in the London University Matriculation Examination will be accepted as equivalent to English in the Arts and Science Preliminary Examination; and the Joint-Board also accepts, for the Preliminary Arts and Science Examination (1) London University Matriculation Mathematics as equivalent to Lower Mathematics; (2) London University Matriculation Mechanics as equivalent to Dynamics; and (3) London University Intermediate Mathematics as equivalent to Intermediate and Higher Mathematics.

(*c*) Oxford University Senior Local Examinations, if passed in a class of Honours, will be accepted as exempting *pro tanto* in Higher Latin, Higher Greek, French, German, and Intermediate Mathematics; also in English, provided that in English the candidate has passed in a class of Honours in division 1, and in division 3, or 4, or 5; a pass without distinction will be accepted *pro tanto* for Lower Latin, Lower Greek, and Lower Mathematics.

(*d*) Oxford University Higher Examination for Women will be accepted as exempting *pro tanto* for the Arts and Science in the case of Higher Latin, Higher Greek, English, and Lower Mathematics; and, if in a class of Honours, for French and German, and Higher Mathematics.

(*e*) Cambridge University Local Examinations:—

1. Junior Locals. The pass in a class of Honours will be accepted for

Lower Mathematics, provided the candidate has passed in Books I., II., and III. of Euclid, and in Quadratic Equations.

2. Senior Locals. The pass will be accepted as exempting *pro tanto* for Lower Latin and Lower Greek, and for Higher Mathematics; and, if in a class of Honours, for English, Higher Latin, Higher Greek, and Modern Languages.

(*f*) Cambridge University Higher Local Examinations will be accepted *pro tanto.*

(*g*) Oxford and Cambridge Schools Examination Board. Lower Certificate will be accepted for Lower Mathematics, provided the candidate has passed in three books of Euclid, and as far as Quadratic Equations in Algebra.

Higher Certificate. The pass will be accepted for Lower Latin, Lower Greek, and Lower Mathematics, provided the latter includes Elementary and Additional Mathematics; if in a class of Honours, will be accepted for Higher Latin, Higher Greek, French, German, and Higher Mathematics.

(*h*) Victoria University. The Preliminary Examination will be held as exempting from the Preliminary proper, but not from the examination required for admission to a graduating class in any language.

ORDINARY DEGREE.

VI. Candidates for the ordinary degree of Master of Arts may follow the Curriculum and take their degree in the subjects hitherto recognized for graduation, as provided by the regulations[1] contained in Ordinances Nos. 12, 14, 18, and 69 of the Commissioners under the Universities (Scotland) Act, 1858, subject always to the preceding provisions of this ordinance; or they may vary the Curriculum for graduation under the regulations contained in the immediately succeeding sections.

VII. (1) Candidates shall attend full courses in at least seven subjects, and shall be examined on these subjects.

(2) Of these subjects four must be (*a*) Latin or Greek (not Modern Greek); (*b*) English or a Modern Language (*i.e.* French, German, Italian, or Spanish) or History; (*c*) Logic and Metaphysics, or Moral Philosophy; (*d*) Mathematics or Natural Philosophy.

(3) The remaining subjects may be selected by the candidate from the departments specified in Section IX. of this ordinance, under the following condition:—That the whole subjects taken shall include either (*a*) both Latin and Greek (not Modern Greek), or (*b*) both Logic and Moral Philosophy, or (*c*) any two of the following three subjects:—Mathematics, Natural Philosophy, and Chemistry.

VIII. (1) Each of the subjects must be studied in a full course of not less than one hundred meetings of the class on separate days, except in cases where the Senatus, with the approval of the University Court, shall have sanctioned, as qualifying for graduation, half courses of not less than fifty meetings on separate days; or where the Senatus, with the approval of the said Court, shall, having regard to the nature of the subject, sanction full courses of less than one hundred or of less than fifty meetings respectively.

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[1] These regulations are printed on pp. 173, 174 of the *Calendar* for 1900-1901.

Under this sub-section the Senate, with the approval of the University Court, has sanctioned, as qualifying for graduation, half courses in the following subjects, viz.:—Latin, Greek, Hebrew, Arabic, Mathematics, and Astronomy.

(2) Two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

Under this sub-section the Senate, with the approval of the University Court, has determined that a half course in any subject may not be combined with a half course in another subject, but only with a second half course in the same subject.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

Under this sub-section the Senate, with the approval of the University Court, has resolved that in Chemistry, Botany, and Zoology the course of study for a Degree in Arts, and the relative proportion of lectures and laboratory or practical work, shall be as follows:—

1. Chemistry.—A systematic course of one hundred meetings of the class and a practical course of two and a half months.

2. Botany.—One hundred meetings on separate days, viz., fifty in systematic course and fifty in practical course.

3. Zoology.—One hundred meetings on separate days, viz., fifty in systematic course and fifty in practical course.

IX. The departments of study for graduation in Arts in each University shall, if adequate instruction is provided, include the following subjects, with such additions or modifications in any University as may hereafter be made by ordinance of the University Court:—

1. *Language and Literature.*

Latin.
Greek.
English.
French.
German.
Italian.
Sanskrit.
Hebrew.
Arabic or Syriac.
Celtic.
Modern Greek.

2. *Mental Philosophy.*

Logic and Metaphysics.
Moral Philosophy.
Political Economy.
Education (Theory, History, and Art of).
Philosophy of Law.

3. *Science.*

Mathematics.
Natural Philosophy.
Astronomy.
Chemistry.
Zoology.
Botany.
Geology.

4. *History and Law.*

History.
Archæology and Art (History of).
Constitutional Law and History.
Roman Law.
Public Law

X. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the ordinary degree of Master of Arts on payment of the fees required.

Degree with Honours.

XI. (1) The degree of Master of Arts may be taken with Honours in any of the following Groups, in which Honours Classes shall have been established in at least two subjects:—

(*a*) Classics (*i.e.* Latin and Greek, with optional subjects such as Comparative Philology, Ancient Philosophy, and Classical Archæology).
(*b*) Mental Philosophy.
(*c*) Mathematics and Natural Philosophy.
(*d*) Semitic Languages.
(*e*) Indian Languages.
(*f*) English (Language, Literature, and British History).[1]
(*g*) Modern Languages and Literature (*i.e.*, French, German, Italian, or Spanish).
(*h*) History.
(*i*) Economic Science [*i.e.*, Political Economy with either (*a*) Moral Philosophy or (*b*) History as supplementary Honours Subjects].[2]

(2) Every Candidate shall take up at least five subjects. Two of these subjects, under separate Professors or Lecturers, must be selected from the Candidate's Honours Group; and the five subjects shall include one from each of the Departments of Language and Literature, Mental Philosophy, and Science, set forth in Section IX. of this Ordinance.

(3) Every Candidate shall attend seven Classes, taking two Classes (one of which shall be an Honours Class) in each of his Honours subjects.[3]

(4) A Candidate who has obtained Honours in any one Group, may, before graduating,[4] present himself again for examination in a second Honours Group. In such a case, he shall not be required to attend more

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[1] The Senatus Academicus, in determining the courses to be attended within the Honours Group entitled "English (Language, Literature, and British History)," and the character of the examination specified in Section XI., sub-section 1 (*f*), shall regard English Literature as constituting the chief subject of the Group, the linguistic and historical subjects being regarded as subsidiary thereto.

[2] This Group of Honours was instituted by Ordinance No. 160, issued by the Universities Commission on 10th May, 1897, and approved by Her Majesty in Council on 19th May, 1898.

[3] The Senate, on 6th April, 1899, made the following regulation:—No Honours Class can be taken for graduation purposes either before or in the same session as an Ordinary Class in the same subject.

[4] Ordinance No. 168, which was issued by the Universities Commission on 24th June, 1897, and approved by Her Majesty in Council on 19th May, 1898, enacts that, notwithstanding the provisions of this sub-section, a candidate who has already graduated may present himself for examination in any Honours Group within five years from the date of his first matriculation after having passed the Preliminary Examination. If he be successful in obtaining Honours, he shall receive a special certificate stating the Honours Group in which he has presented himself, and the class he has obtained in the Group.

than two additional Classes, which shall be Honours Classes, in the second Group.

(5) The examination in the subjects comprised in the Candidate's Honours Group shall be of a higher standard than that required for the ordinary degree of Master of Arts. In his other subjects the standard shall be that required for the ordinary degree.

(6) The Senatus shall, subject to the provisions of Sections XVI. to XX. of this Ordinance, from time to time determine what subjects shall be comprised in each Group, what subjects may be taken in half courses, and in which Group they may be taken: Provided that no new Group shall be instituted except by Ordinance of the University Court.

(7) The provisions of Section VIII. of this Ordinance shall apply to Candidates for Honours; but, in their case, not fewer than fifty meetings, on separate days, extending over an entire winter session, shall constitute a full course for an Honours Class; and not fewer than twenty-five meetings on separate days, extending over half a winter session, or an entire summer session, shall constitute a half course.

XII. (1) Every Candidate shall include Latin, or Greek, either in his Honours Group or as one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

(2) Greek shall be compulsory for candidates for Honours in Mental Philosophy. *Candidates for Honours in Mental Philosophy who have included Latin, but not Greek, as one of the subjects in which the standard of examination is the same as that required for the ordinary degree of Master of Arts, shall be deemed to have satisfied the provisions of this sub-section, if, before they offer themselves for the Honours examination in Mental Philosophy, they shall have passed a special examination in translating into English, passages from the works of Greek philosophical authors,*[1] *including passages from the works of such authors not previously prescribed.*[2]

(3) Candidates for Honours in English, or Modern Languages and Literature, or History, *or Economic Science*[3] (Groups *f*, *g*, *h*, *i*, of Section XI. hereof), shall include within the whole subjects taken for their degree (*a*) Logic and Metaphysics or Moral Philosophy and (*b*) Mathematics or Natural Philosophy.

(4) Every candidate shall have obtained a certificate for his attendance on the class of Latin or Greek, under sub-section (1) or (2) of this section before he offers himself for examination in his Honours group of subjects.[4]

(5) Candidates for Honours in Economic Science (Group (*i*) of Section XI. hereof), who take Moral Philosophy as their supplementary Honours subject, may take a half course in the History of Civil Law and a half course in the Philosophy of Law, which, together, shall be deemed to constitute one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.[5]

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[1] The following works have been prescribed, viz. (*a*), Plato's *Phaedo* or any book of the *Republic*; (*b*) Aristotle's *Ethics*, Book I.

[2] The words in *italics* in this sub-section are taken from Ordinance No. 148.

[3] The words in *italics* are taken from Ordinance No. 160.

[4] This sub-section is taken from Ordinance No. 148.

[5] This sub-section is taken from Ordinance No. 160. See second note on preceding page.

XIII. (1) The whole examination in the candidate's Honours Group must be taken at one time, and the whole examination necessary for graduation with Honours must be taken within five years from the date of the candidate's first matriculation after having passed the Preliminary Examination, unless that period shall be extended by the Senatus on special cause shown; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the extension.

(2) Candidates for Honours may be examined, at any time during their Curriculum, in the three subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

XIV. (1) A candidate who has passed the examinations necessary for the ordinary degree of Master of Arts, but who has not yet graduated,[1] may present himself for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination, and shall not be required to attend further classes:—subject always to the provisions of Section XII. hereof.

(2) No one shall be allowed to present himself a second time as a candidate for the degree of Master of Arts with Honours, who, upon examination, has failed to obtain Honours.

(3) A candidate shall be held to have presented himself who has notified his name for Examination in accordance with the University regulations. But it shall be in the power of the Senatus to relax this rule on special cause shown; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XV. (1) In each group there shall be three Grades of Honours, to be denominated respectively the First, Second, and Third Class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) For the degree of Master of Arts with Honours a Diploma shall be given setting forth the subjects in which he has taken Honours.

Boards of Studies.

XVI. The Senatus of each University shall from time to time institute Boards of Studies corresponding as nearly as may be to the Departments of Study enumerated in Section IX. of this Ordinance.

XVII. Each Board of Studies shall consist of such Members of the Senatus and Lecturers in the University as the Senatus may from time to time select, and the Senatus shall appoint one of the Members of the Board to be Convener thereof.

XVIII. Before the end of each winter session each Professor and Lecturer in the said Departments of Study shall submit to the proper

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[1] Ordinance No 168, which was issued by the Universities Commission on 24th June, 1897, and approved by Her Majesty in Council on 19th May, 1898, enacts that, notwithstanding the provisions of this sub-section, a candidate who has already graduated may present himself for examination in any Honours Group within five years from the date of his first matriculation after having passed the Preliminary Examination. If he be successful in obtaining Honours, he shall receive a special certificate stating the Honours Group in which he has presented himself, and the class he has obtained in the Group.

Board of Studies for its approval a syllabus of the subjects and books proposed for the work of his class for the next academical year. As soon as such approval has been given, the syllabus shall be transmitted to the Faculty of Arts for its consideration. The syllabus, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

In addition to the syllabus of subjects specified in Section XVIII., the Professors, and in the case where a subject is taught by a Lecturer only, the Lecturer or Lecturers, shall submit to the proper Board of Studies a syllabus of the subjects and books to be prescribed for the examinations for the Ordinary Degree of Master of Arts in the next academical year, and for the Honours examinations in the academical year next but one.

XIX. (1) Before the end of each winter session each Board of Studies shall prepare a scheme defining for the academical year next but one following, the classes which shall be deemed to be Honours Classes, and the subjects and courses of reading for Honours in its department, and shall report the same to the Faculty of Arts for its consideration. The scheme, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

(2) Each Board shall in like manner make recommendations through the Faculty of Arts to the Senatus in regard to the half courses which may be sanctioned under the provisions of this ordinance, and the Lectures which may be given on special subjects.

XX. The Principal and the Dean of the Faculty of Arts shall be *ex-officio* Members of each Board of Studies. The Convener shall preside, and, in his absence, each meeting shall appoint its own Chairman, and every Chairman shall have a deliberative, and, in cases of equality, a casting vote.

GENERAL.

XXI. In the case of a foreign student whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint Board of Examiners may deem sufficient. In the case of a student whose native language is other than European, the Senatus may accept as an alternative to Latin or Greek any other classical language, such as Sanskrit or Arabic, subject always to the provisions of Section IV., Sub-section 3 hereof.

XXII. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XXIII. The examination in all the languages in the Curriculum shall, as far as possible, be on the same standard in examinations for the same degree, and shall in all cases test the candidate's knowledge of the history and literature of the several countries.

XXIV. A candidate for the degree of Master of Arts shall not be deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XXV. A student, who has given attendance at classes recognized as qualifying for graduation during one or more sessions in any one or more of the Scottish Universities, may complete his Curriculum by giving attendance during the remainder of his course in another Scottish University, and may proceed to a degree in the latter University in the same way, in all respects, as if the previous part of his Curriculum had been taken therein: Provided always that every such student shall be bound to produce, to the satisfaction of the Senatus of the latter University, certificates of his having passed the Preliminary Examination, and of his attendance at the former University or Universities, and shall be examined in all the subjects necessary for a degree of Master of Arts by the Examiners of the University in which he completes his Curriculum, and in which alone he shall be allowed to graduate; and that no such student shall be admitted to a degree in any University unless he has given attendance in such University during the last winter session of his Curriculum, and one other winter session or two summer sessions.

XXVI. A candidate for the degree of Master of Arts with Honours, who has failed to be placed in any class, may, provided that in the opinion of the Examiners he has given evidence of sufficient attainments in any subject for the ordinary degree of Master of Arts, receive from them a certificate of having passed in such subject, which shall count *pro tanto* as part of the examination required under the regulations for the ordinary degree of Master of Arts.

XXVII. The degree of Master of Arts shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XXVIII. A student who, previous to 1st October, 1892, commenced his course of study with a view to graduation in Arts in any of the Scottish Universities under the regulations[1] in force at the time in such University, may complete his course and become a candidate for the degree of Master of Arts, with or without Honours, in conformity with such regulations. And any such student who has passed the examination hitherto required for admission to a Curriculum of three sessions shall, if he desire to come under the regulations of this Ordinance, be exempted from the Preliminary Examination herein required.

XXIX. Students may attend any classes without having passed the Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation.

Attendance on classes in the Faculty of Arts in which the teaching is on the standard at present recognised for the classes hitherto known as Junior or Middle Classes, shall in no case qualify for graduation.

XXX. It shall be competent for the University Court in each University to discontinue the Junior Classes, or Middle Classes, where such exist, in Latin, Greek, and Mathematics, when, in the opinion of the Court, the provision for Secondary Education in schools throughout the country is sufficient to render such classes no longer necessary.

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[1] These regulations may be found at pp. 173, 174 of the *University Calendar* for 1900-1901, and in the *Calendars* for preceding sessions.

TABLE OF SUBJECTS OF EXAMINATION FOR THE DEGREE OF MASTER OF ARTS, ACCORDING TO THE DIFFERENT CLASSES OF DISTINCTION WHICH CANDIDATES MAY HAVE IN VIEW.

The Examination Questions set in April, 1903, in the several Departments and Subjects will be found towards the end of the *Calendar*.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
LATIN	**October, 1903.** VIRGIL, *Æneid*, Book VII. HORACE, *Odes*, Books I, II, III, IV. HORACE, *Satires*, Book II. TACITUS, *Annals*, XI. CICERO, either (*a*) *Epistles*, not less than sixty consecutive pages of Tyrrell's Selection, or (*b*) *Pro Muraena* and *Pro Archia Poeta*. ROMAN ANTIQUITIES (Ramsay, Caps. II to VIII inclusive, and Cap. XI). ROMAN HISTORY, from B.C. 133 to B.C. 44 (Howe & Leigh's *History of Rome*.) Unseen translation. *Note.*—Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the books read is required, so as to enable a student to explain and comment on the text, and explain allusions. **April and October, 1904.** VIRGIL, *Æneid*, Book IX. PROPERTIUS, I—IV. HORACE, *Satires*, Book II. TACITUS, *Annals*, XIII. CICERO, either (*a*) *Phil.* I, II, or (*b*) *Letters*, not less than sixty consecutive pages of Tyrrell's Selection. ROMAN ANTIQUITIES (Ramsay, Caps. II to VIII inclusive, and Cap. XI). ROMAN HISTORY from B.C. 100 to B.C. 8 (Howe and Leigh's *History of Rome*). Unseen translation. *Note.*—Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the books read is required, so as to enable a student to explain and comment on the text, and explain allusions.	**October, 1901, and afterwards till further notice.** VERSE. { VIRGIL, *Æneid*, VII—XII. HORACE, the *Satires* and *Epistles* with *Ars Poetica*. And any two (or more) of the following combinations: (*a*) LUCRETIUS, Books I, II (or III and IV to line 1019), with a play of PLAUTUS. (*b*) JUVENAL (the whole excepting *Sat.* II, VI, and IX). (*c*) PERSIUS, with Sellar's Selections from Martial, Books I-IV, or Books V-VIII. (*d*) CATULLUS (Clarendon Press Selection) and PROPERTIUS (Ramsay's Selection). PROSE. { CICERO, the *Philippic Orations*, I-VI, or any oration of Cicero, or any consecutive portion of Cicero's *Epistles* (Muirhead's or Prichard and Bernard's Selections) of at least equal length. LIVY, I-III, or XXI-XXIII. TACITUS, *Annals*, XI-XIV. With Latin Composition, History, and Antiquities, etc. Passages also from Books not prescribed will be set. Candidates may profess any extra books they please.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
GREEK	**October, 1903.** HOMER, *Iliad*, XXI and XXII. AESCHYLUS, *Eumenides*. PLATO, *Charmides*, *Laches*, *Theages*. XENOPHON, *Œconomicus*. Holm's *History of Greece*, Vol. II, III, Ch. 1—12. Unseen Translation and Prose Composition, Greek Grammar, Literature, and Antiquities. **April and October, 1904.** HOMER, *Odyssey*, XVIII, XIX, *or* HERODOTUS, V. DEMOSTHENES, *Philippics*, I–III; *Olynthiacs* I–III; *On the Chersonese*; *On the Peace*. EURIPIDES, *Hippolytus*. ARISTOPHANES, *Plutus*. Holm's *History of Greece*, Vol. II, and Vol. III. Unseen Translation and Prose Composition, Greek Grammar, Literature, and Antiquities.	**April, 1899, and afterwards till further notice.** HOMER, *Iliad*, I, VI, IX, XVI, XXII; and *Odyssey*, VI, X, XI, XIV, XXIII. DRAMA. AESCHYLUS, *Agamemnon*, and SOPHOCLES, *Antigone*. HISTORY. Either THUCYDIDES, I, or HERODOTUS, VII. PHILOSOPHY. PLATO, either *Phaedo* or *Republic*, II, IV, and V, to page 466, omitting pages 458—461 (=Chap. I—XIII, omitting VIII and IX). ARISTOTLE, either *Poetics*, omitting Chap. XX and XXI, or *Politics*, I—II, 6 inclusive. Two ADDITIONAL BOOKS to be chosen by the Candidate subject to the special approval of the Professor, which must be applied for at least Three Months before the Examination. By a Book is meant an amount of continuous Prose equal to a Book of Herodotus or Thucydides, or an amount of continuous Poetry equal to *two* plays. Besides passages for translation from the above books, Questions will be set upon the Text, Interpretation, and Subject Matter. A pure and accurate English style in translation is considered of the highest importance. Composition and Unseen Translation. A general knowledge of History, Antiquities, Literature, and Grammar is also required.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
ENGLISH LITERATURE	**October, 1903.** For students of 1902-3:—(1) English Composition; (2) English Philology; (3) Milton, *L'Allegro*, *Il Penseroso*, *Lycidas*, *Paradise Lost*, Books I-IV, *Tractate of Education;* Dryden, *MacFlecknoe*, *Absalom and Achitophel*, Part I, *Discourse on Satire;* Sir Thomas Browne, *Religio Medici;* Locke, *The Conduct of the Understanding* (ed. Fowler); *Seventeenth Century Lyrics* (ed. Saintsbury, pub. by Percival & Co.); Shakespeare, *Twelfth Night*, *Othello;* Browning. *Selections.* **April and October, 1904.** The subjects prescribed for study in the class. See p. 72. Students are advised to present themselves at the April or the October examination immediately following their Course, as the subjects studied in the class will be changed from year to year.	The subjects of examination in English[1] (Language, Literature, and British History) will be as follows:— I. LANGUAGE.—Anglo-Saxon and Middle-English, with Sweet's *Anglo-Saxon Reader* and Morris and Skeat's *Specimens of Early English*, Parts 1 and 2; Gregory Smith's *Specimens of Middle Scots.* II. LITERATURE.—(1) General History of English Literature. (2) Chaucer. (3) Shakespeare. (4) A Dissertation on some subject approved by the Professor; the dissertation to be sent in to the Clerk of Senate not less than a month before the first day of the examination at which the candidate presents himself. III. HISTORY.—The period prescribed for session 1903-4 is that from 1485 to 1603, more especially down to the defeat of the Spanish Armada; and the books prescribed are:—More's *Utopia*; John Knox's *History of the Reformation in Scotland*, Books I and II; *Voyages of Elizabethan Seamen* (Selections from Hakluyt by E. J. Payne, vol. I). Students may study the period in the following books:—*Henry VII.* (Twelve English Statesmen Series); Brewer's *Henry VIII.*, 1509-1529; Bridgett's *Sir Thomas More*; Creighton's *Cardinal Wolsey* (Twelve English Statesmen); Merriman's *Thomas Cromwell*, vol. I; Froude's *History*; A. F. Pollard, *The Protector Somerset*; Martin Hume, *The Great Lord Burghley*; Julian Corbett, *Drake and the Tudor Navy*; P. Hume Brown, *The Life of John Knox.*

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[1] See p. 195, and first note at foot of page.

...	FOR ORDINARY DEGREE.	FOR HONOURS.
FRENCH	**October 1903.** I. Translations into and from French. II. Questions in Grammar: The French Syntax. History of the French Language. Text-book: A. Darmesteter, *Grammaire historique de la Langue française.* III. Essay in French on the subjects of the Class Lectures. IV. Oral Examination.—(1) Reading, translation, and explanation of a text studied in the class (see syllabus for work of class). (2) Conversation in French on the subjects of the Class Lectures. (3) History: The French Institutions. **April and October, 1904.** I. Translations into and from French. II. Questions in Grammar: The French Syntax; History of the French Language. Text-Book: A. Darmesteter, *Grammaire historique de la Langue française.* III. Essay in French on the subjects of the Class Lectures during Session 1903-4. Books prescribed: Molière, *Théatre*; Demogeot, *Textes classiques du 18e et du 19e siècle.* IV. Oral Examination.—(1) Reading, translation, and explanation of a text studied in the class (see syllabus for work of class). (2) Conversation in French on the subjects of the Class Lectures.	**April and October, 1903 and 1904.** I. Translations from Old French and from English into Modern French. Translations into English. II. Essay in English on Historical French Grammar. Text-book: A. Darmesteter, *Grammaire historique de la Langue française.* III. and IV. Essays in French on French Literature in the 17th, 18th, and 19th centuries. Works prescribed: *Molière's* Works, *Regnard's* Works, *Le Sage's* Comedies, *Destouches*, *Marivaux*. French poetry in the 19th century: *Victor Hugo*, *Lamartine*, *Alfred de Vigny*, *Alfred de Musset*, *Leconte de Lisle.* V. Oral Examination—(1) Reading, Translation, and explanation of a text studied in the class. (2) Interrogations on French Literature (see III. and IV.). (3) History of French Civilisation in the 19th century. **April and October, 1905.** I. Translations from Old French and from English into Modern French. Translations into English. II. Essay in English on Historical French Grammar. Text-book: A. Darmesteter, *Grammaire historique de la Langue française.* III. and IV. Essays in French on French Literature (*a*) in the 17th century, (*b*) from 1800 to 1850. V. Oral Examination—(1) Reading, Translation, and explanations of a text studied in the class. (2) Interrogations on French Literature (see III. and IV.). (3) History of French Civilisation in the 19th century.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
GERMAN	**October, 1903.** (1) Translation from and into German. (2) The Grammar Lectures. (3) The works read in the class. (4) General Outlines of German Literature to 1832, with special period—the Romantic School. (5) Oral examination.	**April and October, 1903.** I. Translation from and into German. II. Sixteenth Century German; Historical German Grammar. III. Middle High German, or Gothic, or Old High German. IV. General History of German Literature to year 1832, with special period, 1748-1832; Essay in German. V. Oral examination.
	April and October, 1904. (1) Translation from and into German. (2) The Grammar Lectures. (3) The works read in the Class; in addition, *Gudrun* and *Das Nibelungenlied* (Reclam). (4) General Outlines of German Literature: the two Classical periods. (5) Oral Examination.	**April and October, 1904.** I. Translation from English and Middle High German into Modern German; Historical German Grammar. II Middle High German (*a*) either *Der arme Heinrich*, or *Iwein*; (*b*) *Walther von der Vogelweide*, or *Das Nibelungenlied*; Elementary Gothic, or Old High German. III. General History of German Literature to the year 1832, with special knowledge of the Classical periods. IV. Oral examination. Books prescribed: Wright, *Middle High German Primer*; Golther, *Der Nibelunge Nôt*; Paul, *Mittelhochdeutsche Grammatik*; Pfeiffer, *Iwein*; Güntter, *Walther von der Vogelweide*; Jantzen, *Gotische Sprachdenkmäler*; Kluge, *Geschichte der deutschen National-Litteratur*; Scherer, *History of German Literature.*
		April and October, 1905. I. Translation from English and Middle High German into Modern German; Historical German Grammar. II. Middle High German (*a*) either *Der arme Heinrich*, or *Iwein*; (*b*) *Walther von der Vogelweide*, or *Das Nibelungenlied*, OR Gothic, or Old High German. III. General History of German Literature to the year 1832, with special knowledge of the Classical periods. IV. Oral Examination. Books prescribed: Wright, *Middle High German Primer*; Paul, *Mittelhochdeutsche Grammatik*; Pfeiffer, *Iwein*, *Das Nibelungenlied*, *Walther von der Vogelweide*; Kluge, *Geschichte der deutschen National-Litteratur*; Scherer, *History of German Literature*; Wright, *Gothic Grammar*; Braune.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
HEBREW	**October, 1903.** The Books of Judges and Ruth. Psalms XC.—CVI. The Book of Hosea. The History of Israel to the downfall of Samaria. Hebrew Archæology; History of the Masoretic Text (Weir's *Short History*). Introduction to the books prescribed. Unseen translation; unpointed text to be pointed and translated; translation from English into Hebrew; and Grammar, Syntax, and Accents. **April and October, 1904.** The First Book of Samuel. Psalms CXX.—CXXXIV. The Book of Isaiah XXI.—XXXIX. The History of Israel, from the schism of the kingdom to the downfall of Jerusalem. Hebrew Archæology: History of the Masoretic Text (Weir's *Short History*). Introduction to the Books prescribed. Unseen translation; unpointed text to be pointed and translated; translation from English into Hebrew; and Grammar, Syntax, and Accents.	The Twelve (Minor) Prophets; The Book of Ecclesiastes; The treatise *Pirke Aboth;* Targum Onkelos on Gen. I.—XXIV. History and Antiquities of Israel to the fall of the Jewish State. Outline History of Jewish Literature to the close of the Talmud. Composition and unseen Translation. Comparative Grammar of Hebrew and Arabic.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
ARABIC	Qorań. The Suras contained in Nallino's *Chrestomathia Korani Arabica.* The Prose Extracts contained in Brünnow's *Chrestomathie aus Arabischen Prosaschriftstellern.* Noldeke's *Delectus Veterum Carminum Arabicorum*, pp. 53-63. History and Literature:—Sale's Preliminary Dissertation on the Koran. History of the Arabs and their literature to the death of the Caliph Othman. Unseen translation; unpointed text to be pointed; translation from English into Arabic; Grammar, Syntax, and Prosody.	Qoran. Sura III. with the Commentary of Beidhāwi; Hariri, first four Maqāmāt; Al Fakhri (Derenbourg's Edition), pp. 201-458; the Poem of Ka'ah ibn Zuheir. History of the Caliphate to the fall of Bagdad.
LOGIC	The Class Lectures. Berkeley's *Principles of Human Knowledge* (in Fraser's *Selections from Berkeley*).	**October, 1903, and April, 1904.** (*a*) Logic and Psychology: the subjects of the Class Lectures, Ordinary and Advanced. Candidates will be expected to have read some of the larger modern treatises on Logic, such as Mill, Venn, or Sigwart. (*b*) Metaphysics: (1) Kant's *Kritik of Pure Reason.* (2) History of Greek Philosophy, either (*a*) up to Aristotle, or (*b*) Aristotle and the Post-Aristotelian systems (exclusive of Neo-Platonism). (*c*) Candidates are, in addition, expected to offer for examination some book, author, period, or subject, to be approved by the Professor. **October, 1904, and until further notice.** (*a*) Logic and Psychology: the subjects of the Class Lectures, Ordinary and Advanced. Candidates will be expected to have read some of the larger modern treatises on Logic, such as Mill, Venn, Sigwart, or Bosanquet, and a treatise on Psychology such as Stout's *Analytic Psychology* or James's *Principles of Psychology.* (*b*) Metaphysics: (1) Kant's *Kritik of Pure Reason.* (2) *Two* of the following subjects, one to be a subject in Greek Philosophy and one in Modern Philosophy:—(i.) History of Greek Philosophy up to Aristotle; (ii.) Aristotle and the Post-Aristotelian systems (exclusive of Neo-Platonism); (iii.) Descartes and Cartesianism, Spinoza and Leibniz; (iv.) Locke, Berkeley and Hume; (v.) Hegel's smaller *Logic* (Wallace's translation.)

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
MORAL PHILOSOPHY	The Professor's Lectures during the session in which the student examined has attended the Moral Philosophy Class; the *Republic* of Plato (translated by Davies and Vaughan), and Janet and Séailles, *History of the Problems of Philosophy*, vol. II., part II.	Candidates for Honours will be examined in :—(1) The Professor's Lectures; (2) Aristotle's *Ethics* (omitting Books VII and VIII), Aristotle's *Politics*, Books I—IV, and, in connection therewith, the History of Ethical Thought in Greece previous to Aristotle; (3) Spinoza's *Ethics*; (4) The Ethical Theory of Kant, together with Caird's *Philosophy of Kant*, Books II, III, IV, and Green's Prolegomena to Ethics; (5) the general history of Modern Hedonism. Candidates are, in addition, expected to offer for examination some book, subject, author, or period; or to submit a thesis on a subject in Philosophy, *either* in Logic *or* in Moral Philosophy, such thesis to be lodged by the candidate when entering his name for examination.
POLITICAL ECONOMY	The Lectures and Text-books of the session in which the student has attended the class.	In 1903 and until further notice the subjects of examination for Honours in ECONOMIC SCIENCE will be as follows :— I. **Political Economy.** The subjects of the Class Lectures, Ordinary and Advanced. Prescribed books: Bosanquet, *Philosophical Theory of the State*; Marshall, *Principles of Economics*; Bastable, *Public Finance;* Seligman, *Essays in Taxation;* Bagehot, *Lombard Street*; Keynes, *Scope and Method of Political Economy*; Cunningham and Macarthur, *Outlines of England's Industrial History;* Ingram, *History of Political Economy;* Nicholson, *Money and Monetary Problems;* Goschen, *Foreign Exchanges;* Sidgwick, *Principles*, Book III; *Memoranda on Classification and Incidence of Imperial and Local Taxes* (Blue-book), pp. 66—175; *Final Report of Commission on Local Taxation, Scotland* (Blue Book). Candidates will be required to submit a thesis on some subject to be approved by the Professor. II. *Either* (*a*) **Moral Philosophy**—see the regulations for Honours in Moral Philosophy *ut supra*. *Or* (*b*) **History.** British History to 1880, with especial reference to the economic condition of England. Prescribed books: *Walter of Henley* (ed. E. Lamond); *The Libell of English Polycye* (Political Songs, vol. ii. in Rolls Series); *The Discourse of the Commonwealth of this Realm of England* (ed. E. Lamond); Mun's *England's Treasure by Foreign Trade* (ed. Ashley); Hely Hutchinson's *Commercial Restraints of Ireland* (ed. Carroll); Petty's *Treatise of Taxes and Contributions* (ed. Hull).
HISTORY OF CIVIL LAW	The Class Lectures (see page 125).	
PHILOSOPHY OF LAW	Holland's *Jurisprudence* (any edition after the fourth). Maine's *Ancient Law*. Miller's *Philosophy of Law*.	

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
EDUCATION	**October, 1903.** The Class Lectures; Adams's *Herbartian Psychology applied to Education;* Davidson's *Aristotle and the Ancient Educational Ideals;* Ascham's *Scholemaster*, Bk. I.; Locke's *Thoughts on Education;* Rousseau's *Émile;* Herbert Spencer's *Education.* **April, 1904, and October, 1904.** The Class Lectures; Adams's *Herbartian Psychology applied to Education*, Chaps. II., III., VI., VII., IX.; Davidson's *Aristotle and the Ancient Educational Ideals*, pp. 42-51, 61-113, 134-202, 216-224; Ascham's *Scholemaster*, pp. 11-105; Milton's *Tractate on Education*; Locke's *Thoughts on Education*, Sects. 31-200 (pp. 20-177); Rousseau's *Émile*, Bks. II., III.; Herbert Spencer's *Education*, Chaps. I., II., III.; Fitch's *Lectures on Teaching*, Chaps. IV., VI., XV.	
MATHEMATICS	Euclid, First Six Books, and Book XI, 1—21. Analytical Geometry of straight line and circle. Algebra, including Quadratic Equations, Progressions, and Binomial, Exponential, and Logarithmic Theorems. Plane Trigonometry, including the Solution of Triangles by the aid of Logarithmic tables.	*Second and Third Class.*—In addition, Plane Trigonometry; Analytical and Geometrical Conics, and Differential and Integral Calculus. *First Class.*—In addition, Spherical Trigonometry, Solid Geometry, Differential and Integral Calculus, Differential Equations.
NATURAL PHILOSOPHY	The subjects explained in the class. Dynamics, Acoustics, Heat, Light, Magnetism, and Electricity.	Higher Dynamics (Statics and Kinetics of a particle and of a rigid body). The special subjects treated in the Higher Natural Philosophy Class during the session of attendance, with one of the following:—Hydro-dynamics, Conduction of Heat, Magnetism and Electricity, Light, Sound, Elasticity.
ASTRONOMY	The Professor's Lectures during the session or sessions in which the student has attended the class, and Popular Astronomy.	
CHEMISTRY	Theory: Principles of Chemistry, Chemistry of the Non-Metallic and the Principal Metallic Elements. Outlines of Organic Chemistry. Practical: Inorganic preparations. Qualitative analysis, including mixtures. Text-books: Newth's *Inorganic Chemistry* or Bloxam's *Chemistry;* Ramsay's *Modern Chemistry;* Perkin and Kipping's *Organic Chemistry* or Remsen's *Organic Chemistry.*	[For Final B.Sc.]—The examination is partly written and oral, and partly practical. Principles and Theories of Chemistry; general inorganic and organic Chemistry; Elements of metallurgical and physical Chemistry. The practical examination embraces inorganic quantitative analysis, physical determinations such as molecular weight, organic analysis and preparations. Books recommended:—Bloxam, *Chemistry;* or Thorpe, *Inorganic Chemistry;* Perkin & Kipping, *Organic Chemistry;* and Gatterman, *Practical Methods of Organic Chemistry;* Roberts-Austen, *Introduction to Metallurgy;* Walker, *Intro. to Physical Chemistry.*

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
ZOOLOGY	The Elementary Lectures and Practical Work. Text-books by Shipley and MacBride; Marshall & Hurst; Wallace's *Darwinism.*	
BOTANY[1]	The general principles of the Science of Botany, including External Morphology, Anatomy and Physiology; also the chief characters of the Natural Orders of Phanerogams represented in the British Flora, and of the leading types of Pteridophyta, Bryophyta, and Thallophyta.	
HISTORY	The Outlines of the History of England and Scotland to 1880.	Candidates will be examined in the following subjects:—(1) British History to 1880. This subject includes the History of England and Scotland, the History of Ireland from the reign of Henry II., and the History of the Colonial Empire of Great Britain. (2) The General History of the English Constitution. (3) The Constitutional Law and Custom of Great Britain, France, and the United States of America. Prescribed books: Dicey, *Law of the Constitution;* Anson, *Law and Custom of the Constitution;* Bodley, *France;* Bryce, *American Commonwealth.* (4) The growth of the English Constitution to the close of the reign of Edward I. Prescribed book: Stubbs, *Select Charters.* (5) One of the following periods of Foreign History at the choice of the Candidate (*a*) 800-1272, (*b*) 1453-1648, (*c*) 1740-1878. Candidates may, *in addition,* submit through the Professor of History a thesis on some subject of British or Foreign History to be approved by the Board of Examiners for Honours in History. This should, as far as possible, be based on the leading original authorities on the subject of which it treats. Such thesis, when offered, will be considered as forming an integral part of the examination.
CONSTITUTIONAL LAW AND HISTORY	The Class Lectures with Taswell-Langmead's *English Constitutional History* and Dicey's *Law of the Constitution.*	
ROMAN LAW	Institutes of Justinian (ed. Moyle or Sandars), and the Class Lectures. *Note.*—Candidates who aim at a degree in Law are recommended, in addition to the above, to profess *Dig.*, Lib. XVIII, Tit. I. The title is translated and annotated by Mackintosh—Roman Law of Sale.	

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[1] The examination in this and the two preceding subjects will be oral and practical, as well as by written papers.

ORDINARY DEGREE OF M.A.

The following directions may be helpful to a Student in arranging his course :

I. *A Student who has not passed the whole Preliminary Examination*, but who has passed the Higher Standard in either Latin or Greek or Mathematics, may attend the qualifying class in that subject, but may not offer himself for examination in it until he has passed the whole Preliminary Examination.

He cannot, however, proceed to Graduation until he has attended qualifying classes in the University for three academic years after he has completed his Preliminary Examination.

II. *A Student who has passed the whole Preliminary Examination* must attend full courses in at least seven subjects, spread over at least three years, and must be examined in these subjects.

Of these subjects *three* must consist of one from each pair of the following alternatives:

(1) Latin or Greek.
(2) Logic or Moral Philosophy.
(3) Mathematics or Natural Philosophy.

The *fourth* subject must consist of any of the above not already taken, or of Chemistry.

The *fifth* subject must be either English or a Modern Language, or History.

The *sixth* and *seventh* subjects may consist of any one not already taken, from those enumerated in Section IX. of the Ordinance, and for which teaching is provided.

III. Students are advised to attend the qualifying classes which they select, as far as possible according to the following scheme :

First Year.	Second Year.	Third Year.	Fourth Year.
Any of the following: Latin. Greek. French. German. Italian. History. Mathematics. Chemistry. Zoology. Botany.	Any of the former not already taken, together with Logic. Political Economy. Natural Philosophy. Hebrew. Arabic. English.	Any of the former not already taken, together with Moral Philosophy. Education. Constitutional Law. Roman Law. Astronomy.	Any of the former not already taken.

Caution.—Students who desire to attend a class in any Language other than Latin or Greek or English, must be careful,

In the case of French, German, or Italian, that they have passed the Preliminary Examination ; and

In the case of Hebrew, Arabic, or Syriac, that they have passed a specially qualifying Examination. For Hebrew and Arabic preparatory classes are held, and may be taken in the Students' first year.

For *Half-courses* see Section viii. (1) and (2) of the Ordinance.

DEGREE OF M.A. WITH HONOURS.

Students who propose to graduate with Honours may with advantage consult the following synopsis of the conditions attaching to the several Groups of Honours:—

I. The Degree of M.A. with Honours may be taken at present in any of the following *Groups*, there being two subjects in each Group:

(*a*) Classics, viz.
  (1) Latin.
  (2) Greek.

(*b*) Mental Philosophy, viz.
  (1) Logic.
  (2) Moral Philosophy.

(*c*) Mathematics and Natural Philosophy, viz.
  (1) Mathematics.
  (2) Natural Philosophy.

(*d*) Semitic Languages, viz.
  Hebrew.
  Arabic.

(*e*) [Indian Languages.]

(*f*) English, viz.
  (1) English Language and Literature.
  (2) British History.

(*g*) Modern Languages, viz.
  (1) French.
  (2) German.

(*h*) History, viz.
  (1) History.
  (2) Constitutional Law and History.

(*i*) Economic Science, viz.
  (1) Political Economy.
  (2) Moral Philosophy, *or* History.

II. *Conditions of Examination*:

(1) The whole examinations necessary for graduation with Honours must be taken within five years from the date of the Candidate's first matriculation after having passed the Preliminary Examination, unless that period shall be extended by the Senatus on special cause shown.

(2) The Candidate is examined in at least five subjects. (*a*) *Two* of these are his two *Honours* subjects (*e.g.* Logic and Moral Philosophy, if his group is Mental Philosophy). The examinations in the Honours subjects must be taken at one time, and not until the Candidate has obtained his certificate of attendance on the ordinary class of Latin or Greek. (*b*) In the other *three* subjects the examination is that for the *Ordinary* degree. The Candidate may offer himself for examination in them, together or apart, at any time or times during his curriculum, after he has attended the appropriate classes.

(3) Under the restrictions noted below [see (4) and III. (2)], the Candi-

date may choose his three Ordinary degree subjects from the following list:

Latin.
Greek.
English.
French.
German.
Hebrew.
Arabic.
Logic and Metaphysics.
Moral Philosophy.
Political Economy.
Education (Theory, History, and Art of).
Mathematics.
Natural Philosophy.
Astronomy.
Chemistry.
Zoology.
Botany.
History.
Constitutional Law and History.
Civil, *i.e.* Roman Law.

(4) Candidates in the various Honours Groups are restricted in their choice among the Ordinary Degree subjects to the following extent. They must choose

In Group (*a*) *Classics*: one subject from each of the following sets of Ordinary classes:

(i) Logic, Moral Philosophy, Political Economy, Education.

(ii) Mathematics, Natural Philosophy, Chemistry, Zoology, Botany, Astronomy.

(iii) Any subject for the Degree except the two already chosen.

In Group (*b*) *Mental Philosophy*: one subject from each of the following sets of Ordinary classes:

(i) Latin, Greek. If the Greek class has not been attended and the examination for Ordinary Degree on Greek passed, the student who chooses Latin as his subject in this set is required to pass a special examination in Greek, and this special examination he must pass before he offers himself for the Honours examination. [See the paragraph to which the second footnote on p. 196 refers.]

(ii) Mathematics, Natural Philosophy, Chemistry, Zoology, Botany, Astronomy.

(iii) Any subject for the Degree except the two already chosen.

In Group (*c*) *Mathematics and Natural Philosophy*: one subject from each of the following sets of Ordinary classes:

(i) Latin, Greek.

(ii) Logic, Moral Philosophy, Political Economy, Education.

(iii) Any subject for the Degree except the two already chosen.

In Group (*d*) *Semitic Languages*: one subject from each of the following sets of Ordinary classes;

(i) Latin, Greek.

(ii) Logic, Moral Philosophy, Political Economy, Education.

(iii) Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Botany.

In Groups (*f*) *English*,
(*g*) *Modern Languages*,
(*h*) *History*,
one subject from each of the following sets of Ordinary classes:
(i) Latin, Greek.
(ii) Logic, Moral Philosophy.
(iii) Mathematics, Natural Philosophy.

In Group (*i*) *Economic Science*: if History be the second subject chosen, one subject from each of the following sets of Ordinary classes:

(i) Latin, Greek.
(ii) Logic, Moral Philosophy.
(iii) Mathematics, Natural Philosophy.

If Moral Philosophy be the second subject chosen, one subject from each of the following sets of Ordinary classes:

(i) Latin, Greek.
(ii) Mathematics, Natural Philosophy.
(iii) A half course in the History of Civil Law combined with a half course in Philosophy of Law, or any subject for the Degree except those already chosen. [See III. (2) below.]

III. *Attendance.*

(1) The Candidate must attend two classes, one of which shall be an Honours class, in each of his two *Honours* subjects, these two subjects being taught by separate Professors or Lecturers; and he cannot take an Honours class in a subject before, or in the same session as, an Ordinary class in that subject. All Honours classes meet on not less than fifty days in a session.

(2) In order to qualify for his Ordinary degree examinations in the other three subjects, the candidate must attend classes in them. Most of the classes for the Ordinary degree meet on not less than one hundred days in a session. In place of such a full course, two half courses, each involving not less than fifty meetings, may be taken. The subjects in which half courses may be taken are: Latin, Greek, Hebrew, Arabic, Mathematics, Astronomy. A half course in any of these subjects can be combined only with a second half course in the same subject. There is also a half course in Philosophy of Law and in the History of Civil Law, and these two can be combined to form one subject, but only by those who select Moral Philosophy in the Group of Economic Science.

IV. *Additional Regulations* with regard to Degree of M.A. with Honours.

(1) A candidate who has obtained Honours in any one Group may, whether he has graduated or not, present himself again for examination in a second Honours Group. He is required to attend two additional classes, which shall be Honours Classes, in this second Group.

(2) A Candidate who has passed the seven examinations necessary for the ordinary Degree of Master of Arts, whether he has graduated or not, may, without attending further classes, present himself for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination: but he must satisfy the requirements as to subjects set out above under II. (4).

(3) No one shall be allowed to present himself a second time as a candidate for the Degree of Master of Arts with Honours, who, upon examination, has failed to obtain Honours.

TABLE OF EXAMINATIONS FOR THE DEGREE OF M.A., TO BE HELD DURING SESSION 1903-4.

FEE.	Names to be given in and Fees paid to Assistant-Clerk[1] (Matriculation Office). Date.[2]	Subjects of Examination.	Dates of Written Examinations and Hours at which the different Papers will be set.	
			September—October, 1903.	March—April, 1904.
£1 1s. FOR EACH SUBJECT UNTIL £5 5s. SHALL HAVE BEEN PAID.	10th September or 10th March	Astronomy,	Saturday, 26th Sept., 9—12 noon.	Saturday, 26th March, 9—12 noon.
		Zoology,	Monday, 28th Sept., 9—12 noon.	Monday, 28th March, 9—12 noon.
		Botany,	Do., do., 2—5 p.m.	Do., do., 2—5 p.m.
		Chemistry,	Tuesday, 29th Sept., 9—12 noon.	Tuesday, 29th March, 9—12 noon.
	16th September or 8th March	Mathematics,	Fri., 25th Sept., 9—12 noon & 3—6 p.m	Fri., 25th Mar., 9—12 noon & 3—6 p.m.
		Education,	Sat., 26th Sept., 9—12 noon & 3—6 p.m.	Sat., 26th Mar., 9—12 noon & 3—6 p.m.
		History (Hon.),	Mon., 28th Sept., 9—12 noon & 2—5 p.m.	Mon., 28th Mar., 9—12 noon & 2—5 p.m.
		Constitutional Law & History,	Do., do., 9—12 noon.	Do., do., 9—12 noon.
		Roman Law,	Do., do., 2—5 p.m.	Do., do., 2—5 p.m.
		Mathematics (Hon.),	Do., do., 3—5 p.m.	Do., do., 3—5 p.m.
		History (Hon.),	Tue., 29th Sept., 9—12 noon & 2—5 p.m.	Tues., 29th Mar., 9—12 noon & 2—5 p.m.
		Moral Philosophy,	Do., do., 9—12 noon.	Do., do., 9—12 noon.
		Moral Philosophy (Hon.),	Do., do., 2—5 p.m.	Do., do., 2—5 p.m.
		History (Hon.),	Wed., 30th Sept., 9—12 noon & 2—5 p.m.	Wed., 30th Mar., 9—12 noon & 2—5 p.m.
		Logic,	Do., do., 9—12 noon.	Do., do., 9—12 noon.
		Logic (Hon.),	Do., do., 2—5 p.m.	Do., do., 2—5 p.m.
		Political Economy,	Do., do., 6—9 p.m.	Do., do., 6—9 p.m.
		History (Ord. and Hon.),	Thur., 1st Oct., 9—12 noon & 2—5 p.m.	Thur., 31st Mar., 9—12 noon & 2—5 p.m.
		English Literature (Hon.),	Do., do., 9—12 noon & 2—5 p.m.	Do., do., 9—12 noon & 2—5 p.m.
		Mental Philosophy (Hon.).	Do., do., 2—6 p.m.	Do., do., 2—6 p.m.
		Natural Philosophy,	Fri., 2nd Oct., 9—12 noon & 2—5 p.m.	Friday, 1st April, 9—12 noon & 2—5 p.m.
		English Literature (Hon.),	Do., do., 9—12 noon & 2—5 p.m.	Do., do., 9—12 noon & 2—5 p.m.
		French (Hon.),	Do., do., 9—12 noon.	Do., do., 9—12 noon.
		German (Hon.),	Do., do., 2—5 p.m.	Do., do., 2—5 p.m.
		English Literature (Hon.),	Sat., 3rd Oct., 9—12 noon & 2—5 p.m.	Sat., 2nd April, 9—12 noon & 2—5 p.m.
		English Literature (Ord.),	Do., do., 9—12 noon.	Do., do., 9—12 noon.
		Latin and Greek (Hon.),	Do., do., 2—6 p.m.	Do., do., 2—6 p.m.
		Natural Philosophy (Hon.),	Do., do., 2—6 p.m.	Do., do., 2—6 p.m.
		Latin (Ord.),	Mon., 5th Oct., 9—11, 12—2, & 3—5 p.m	Mon., 4th April, 9—11, 12—2, & 3—5 p.m.
		Latin (Hon.),	Do., do., 9—12 noon & 2—5 p.m.	Do., do., 9—12 noon & 2—5 p.m.
		German (Ord. and Hon.),	Tue., 6th Oct., 9—12 noon & 2—5 p.m.	Tues., 5th April, 9—12 noon & 2—5 p.m.
		French (Ord. and Hon.),	Wed., 7th Oct., 9—12 noon & 2—5 p.m.	Wed., 6th April, 9—12 noon & 2—5 p.m.
		Greek (Ord.),	Thur., 8th Oct., 9—11, 12—2, & 3—5 p.m.	Thur., 7th April, 9—11, 12—2, & 3—5 p.m.
		Greek (Hon.),	Do., do., 9—12 noon & 2—5 p.m.	Do., do., 9—12 noon & 2—5 p.m.
		Latin and Greek (Oral),	Do., do., and following days at 11 a.m.	Do., do., and following days at 11 a.m.
		Hebrew,	Fri., 9th Oct., 9—12 noon & 2—5 p.m.	Friday, 8th April, 9—12 noon & 2—5 p.m.

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[1] For Women students, Miss Galloway, Queen Margaret College.

[2] [illegible] and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid [illegible] held to be entered for the examination until his name is

2.—GRADUATION IN SCIENCE.

The Scottish University Commissioners (1889) have ordained that two Degrees in Science may be conferred by each of the Universities of Scotland—viz., Bachelor of Science (B Sc.) and Doctor of Science (D.Sc.). These degrees may be given in Pure Science and in Applied Science.

Degrees in Pure Science.

The following are the provisions of Ordinances No. 12[1], No. 42, No. 44, and No. 155 as they apply to this University:—

I. Two Degrees in Science may be conferred by the University of Glasgow—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.).

II. Every candidate for the Degree of Bachelor of Science must pass the Preliminary Examination prescribed by Ordinance No. 11 (Regulations for Degrees in Arts); and the conditions with respect thereto imposed by that ordinance (see pp. 186—193, 198) are applicable in all respects to candidates for the Degree of Bachelor of Science, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics must be passed on the higher standard;[2] (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus, exempts from the Preliminary Examination.

III. (1) Candidates for the Degree of Bachelor of Science must, in the course of not less than three academical years, attend at least seven courses of instruction, in subjects prescribed for examination under Sections VIII. and IX. below.

(2) Three of these courses must be in subjects prescribed for the First Science Examination under Section VIII.; and four must be in subjects prescribed for the Final Science Examination under Section IX.

IV. (1) Four of the seven courses must be taken in this University.

(2) Three may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science: Provided that the fees for attendance at an approved Institution or under a recognised teacher in

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[1] This ordinance was printed in full in the *University Calendar* for 1892-93, pp. 485-488, and the modifications made by Ordinance No. 42 were indicated, by means of square brackets, in the *University Calendar* for 1894-95.

[2] A student who, having passed the Arts Preliminary Examination in accordance with the provisions of Ordinance No. 11, has thereafter obtained a certificate of attendance on a qualifying class of Mathematics, shall not be required to pass any further examination in Mathematics as a condition of entering on the course of study for graduation in Science under the provisions of Ordinance No. 12. See Ordinance No. 44, Section V. Candidates for the Degree of B.Sc. in Pure Science may offer hemselves for examination in Mathematics on the intermediate instead of on the higher standard; provided that in addition to the ancient or modern language already taken they also offer themselves for examination in a modern language as a fifth subject, such further examination to be on the standard prescribed by the Joint Board for the Medical Preliminary. Notwithstanding these provisions, candidates hall not be entitled to profess at the Final Science Examination Mathematics, Natural Philosophy, or Astronomy, unless they have passed the Preliminary Examination in Mathematics on the higher standard. See Ordinance No. 155, Section I.

Glasgow shall not be less than the fees exigible for the corresponding courses in the University.

V. All candidates, not matriculated students of the University, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in Glasgow, shall at the commencement of each year of such attendance enrol their names in a book to be kept for that purpose in the University, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having in respect of such payment a right to the use of the Library of the University.

VI. (1) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.

(2) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; but two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It is the duty of each Professor and Lecturer annually at the end of each winter session to submit to the Board of Studies a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Board of Studies shall transmit the schemes to the Faculty of Science, who shall submit them to the Senate with such observations as they may think fit to make thereon. The Senatus transmits such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science transmits such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless they shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

VIII. (1) There is a First Science Examination[1] in the three following subjects—viz., (1) Mathematics or Biology (*i.e.* Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects is the same as the examination in these subjects for the Ordinary Degree of Master of Arts.

(3) Candidates may present themselves in any one or more of these subjects at any examination held after they have attended a full course in the subject or subjects professed.

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[1] This examination includes practical work in the subjects admitting of, or requiring it.

IX. (1) There is a Final Science Examination[1] on a higher standard in any three or more of the following subjects :—

1. Mathematics.
2. Natural Philosophy.
3. Astronomy.
4. Chemistry.
5. Human Anatomy, including Anthropology.
6. Physiology.
7. Geology, including Mineralogy.[2]
8. Zoology, including Comparative Anatomy.
9. Botany, including Vegetable Physiology.

(2) The standard of this examination shall be as nearly as possible equivalent to that of the examination for the Degree of Master of Arts with Honours, where the subjects are different; and where the subjects are the same the examination shall be identical.

(3) A subject already taken under the preceding section for the First Science Examination may be taken also under this section for the Final Science Examination.

(4) Candidates presenting themselves for this examination must have attended four full courses of higher instruction, including practical or laboratory work, in the subjects professed, subject always to the provisions of Sections VI. and VII. hereof.

(5) The Final Science Examination shall be taken not less than one year after the candidate has passed the First Science Examination.

The Senate, with the approval of the University Court, has framed the following regulation for the Final Science Examination, viz.: A candidate shall be allowed the option of presenting himself in any one subject for the Final Science Examination, or in two, or in three or more at one time, provided always that if the candidate select Mathematics and Natural Philosophy, these subjects shall be taken together in one examination, in accordance with Ordinance No. 11, Section XIII. (1) and Ordinance No. 12, Section IX. (2).

X. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XI. A candidate for the degree of Bachelor of Science shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It is competent to the Examiners for the degree of Bachelor of Science to report that a candidate has passed with special distinction in one or more of the subjects professed by him: and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

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[1] This examination includes practical work in the subjects admitting of, or requiring it.

[2] The course in Geology, including Mineralogy, consists of one hundred meetings, namely, fifty systematic and fifty practical.

Degree in Applied Science.

XIII. Degrees in Applied Science may be instituted and conferred according to regulations to be laid down in special Ordinances applicable to each University by the Commissioners under the Universities (Scotland) Act, 1889; or after the expiry of their powers by the University Court in each University.

XIV. The provisions of Sections II. to VIII. of this Ordinance inclusive, in so far as they relate to the Preliminary and First Science Examinations, shall be applicable in all respects to degrees in Applied Science instituted as aforesaid, except where special provision is made to the contrary in the special Ordinances aforesaid.

Doctorate of Science.

XV. Graduates of any University who have held the degree of Bachelor of Science for a term of five years, may offer themselves for the degree of Doctor of Science in the same University.

XVI. A candidate for the Degree of Doctor of Science shall present a thesis or a published memoir or work[1] to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination as may from time to time be determined. [This examination is to be conducted by Examiners appointed under Ordinance No. 62, Section X. See *Cal.* page 233.]

The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done and the thesis composed by himself.

General.

XVII. A student who, at the time when this ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in any of the Scottish Universities under regulations in force at the time in such University, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,[2] or with the provisions of this ordinance, may become a candidate for the Degree of Bachelor of Science.

XVIII. The Degrees of Bachelor and Doctor of Science shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum.*

XIX. This ordinance came into force on 1st October, 1892.

For Dates of Examinations, see Table on page 228.

Degrees in Science in Engineering.

The following are the provisions of Ordinance No. 23, Glasgow No. 2:—

I. Two Degrees in Science in Engineering may be conferred by the

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[1] The Thesis must be lodged on or before 9th January.

[2] Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the *University Calendar* for 1884-85; those who began in 1890, or 1891, or 1892 may qualify under the regulations contained in the *Calendar* for 1892-93.

University of Glasgow, viz., Bachelor of Science in Engineering[1] and Doctor of Science in Engineering.

II. Every candidate for the degree of Bachelor of Science in Engineering must pass the Preliminary Examination prescribed by Ordinance No. 11 (Regulations for degrees in Arts); and the conditions with respect thereto imposed by the said ordinance (see pp. 186—193, 198) are applicable in all respects to this ordinance except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics must be passed on the higher standard; (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, exempts from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

III. Candidates must in the course of not less than three academical years attend at least the nine courses of instruction prescribed under Section IX. below.

IV. (1) Five of the nine courses must be taken in this University. One of these courses must be a course in Engineering.

(2) Four may be taken in other Universities or institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Engineering: Provided that the fees for attendance at an approved institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

V. It is competent to the University Court to admit to the examinations for the degree of Bachelor of Science in Engineering, and to graduation, any candidate who presents the diploma of the Glasgow and West of Scotland Technical College, and who has passed the Preliminary Examination hereinbefore appointed: Provided that before such candidate shall be admitted to the Final Science Examination prescribed under Section XI. hereof:—

(1) He shall, after having received the said diploma, have attended in this University at least three full courses, during at least one academical year; and of these courses one at least shall be in Engineering.

(2) He shall, after having received the said diploma, have attended in this University such courses as will, along with the classes taken at the said College for the said diploma, be equivalent to the whole courses for the curriculum hereinafter instituted.

VI. The University Court may make regulations to enable candidates not matriculated students of the University availing themselves of the permission to attend Lectures at approved institutions or by recognised teachers in Glasgow, to obtain on payment of a fee not exceeding in amount the Matriculation Fee paid by the students of the University, a right to the use of the Library of the University.

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[1] By order of the Council of the Institution of Civil Engineers the possession of the Degree of B.Sc. in Engineering exempts candidates applying for election into the Institution as Associate Members from passing the examination prescribed by the Council.

VII. (1) The Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.

(2) The Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; and two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session, to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VIII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow.

IX. The subjects of study[1] shall be as follows:—

1. Mathematics, including Analytical Geometry, and Differential and Integral Calculus.
2. Natural Philosophy, including Applied Higher Mathematics.
3. Chemistry.
4. A course in the Physical Laboratory,[2] or in the Chemical Laboratory, or of Practical Chemistry.

and either:—

5, 6. Two courses in Engineering,[2] including Laboratory Practice.

7, 8. Two courses of practical work in Drawing.

9. A course in one of the following:—
   - (*a*) Astronomy and Geodesy.
   - (*b*) Geology and Mineralogy.
   - (*c*) Naval Architecture.

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[1] The words in *italics* in this section are modifications which the University Court, on a representation by the Senate, made by virtue of the power conferred upon the Court by Section XIV. of this Ordinance.

[2] The Physical Laboratory must have been taken previously by those who take Electrical Engineering under 5, 6.

(*d*) Engineering Laboratory, Mechanical or Electrical (Special Course). [*This laboratory course cannot be taken concurrently with either of the laboratory courses specified under* 5, 6.]

(*e*) Electricity—Pure and Applied.

(*f*) *Any half-course in Engineering not already taken under* 5, 6.

or :—

5, 6. Two courses in Naval Architecture with Marine Engineering.

7, 8. Two courses of practical work in Ship and Engineering Drawing.

9. A course in Engineering, including Laboratory Practice.

Provided that during the three years immediately subsequent to the date on which this ordinance shall come into force, the courses in Engineering herein prescribed shall not necessarily include Laboratory Practice.

IXA.[1] *The following is the curriculum for the Degree of B.Sc. in Mining Engineering :—*

First Year : *Mathematics (Ordinary); Natural Philosophy (Ordinary); Chemistry; Chemical Laboratory; Mining, Class I. (50 meetings).*

Second Year : *Engineering, Class I. ; Engineering, Class II. or III. ; Mining, Class II. (50 meetings) ; Drawing ; Geology and Mineralogy.*

Third Year : *Electrical Engineering, Class I. : Metallurgy ; Metallurgical Laboratory; Mining, Class III. (25 meetings) ; Engineering Laboratory.*

X. (1) There shall be a First Science Examination[2] in subjects 1, 2, 3, and 4 of the section immediately preceding.

(2) The examination in (1) Mathematics and (2) Natural Philosophy shall include the higher branches of Mathematics specified under Mathematics and the higher Mathematics included under Natural Philosophy in the section immediately preceding;[2] but it shall be optional to candidates to pass the same examination in either or both of these subjects as that required for the Ordinary Degree of Master of Arts: Provided that in that case they shall be required before graduation to pass a subsequent examination in the remainder of the subject or subjects.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

XI. (1) There shall be a Final Science Examination[3] in subjects 5, 6, 7, 8, and 9 of Section IX. hereof ; and, if required, in the higher branches of Mathematics as provided in Section X., Sub-section 2 hereof.

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[1] This curriculum, having been arranged by the Senate, was sanctioned by the University Court on 18th June, 1903, in virtue of the power belonging to the Court according to Section XIV. of this Ordinance.

[2] The Senate has authorised the Examiners in Mathematics and Natural Philosophy to return as having passed in the elementary part of either or both of these subjects any candidate who has attempted the examination in the higher branches of either or both and has failed to pass, provided that in the opinion of the Examiners the candidate has attained a standard equivalent to that required for the ordinary Degree of M.A.

[3] This examination includes practical work in the subjects admitting of, or requiring it : Provided that, in the case of Engineering Students, a practical examination shall be passed in Chemistry or Physics according as the Chemical or the Physical Laboratory Course has been chosen as part of the qualifying curriculum.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the First Science Examination and have attended the required courses in the subject or subjects professed: Provided that for this purpose subjects 5, 6, 7, and 8, specified in Section IX. hereof shall be deemed one subject.

XII. A candidate for the degree of Bachelor of Science in Engineering shall not be deemed to have had attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XIII. It is competent to the Examiners for the degree of Bachelor of Science in Engineering to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

XIV. It is competent to the University Court of the University of Glasgow to modify from time to time the provisions as to curriculum hereinbefore contained, in case such modification shall be rendered desirable by the development of Engineering science, or in consequence of further provisions having been made within or without the University for the study of any special branch of the said Science: Provided that in no case shall the number of full courses of study required be less than the number required for the Degree of Bachelor of Science in Pure Science, as specified in Ordinance No. 12.

Doctorate of Science in Engineering.

XV. Graduates of the University of Glasgow who have held the degree of Bachelor of Science in Engineering for a term of five years, may offer themselves for the degree of Doctor of Science in Engineering in the said University.

XVI. A candidate for the Degree of Doctor of Science in Engineering shall present a thesis or a published memoir or work[1] to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall be bound to pass such an examination as may from time to time be determined.

The thesis shall be a record of original research undertaken by the candidate, or of important engineering work designed by himself, and actually carried out, and shall be accompanied by a declaration, signed by him, that these conditions have been satisfied.

General.

XVII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this ordinance, and who have passed the necessary examinations, shall be entitled to receive the degrees of Bachelor of Science in Engineering and Doctor of Science in Engineering, as the case may be, on payment of the fees required.

[1] The Thesis must be lodged on or before 9th January.

XVIII. A student who, at the time when this ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in Engineering in the University of Glasgow, under regulations in force at the time therein, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,[1] or with the provisions of this Ordinance, may become a candidate for the degree of Bachelor of Science in Engineering.

XIX. The degrees of Bachelor and Doctor of Science in Engineering shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

XX. This Ordinance came into force from and after the date on which it was approved by Her Majesty in Council, viz., 26th June, 1893.

For Dates of Examinations, see Table on page 228.

DEGREES IN SCIENCE IN AGRICULTURE.

The regulations for the Degree of Bachelor of Science in Agriculture are contained in Ordinance No. 134 of the Universities Commission (1889), and are as follows:—

I. A degree of Bachelor of Science in Agriculture may be conferred by the University of Glasgow.

II. Every candidate for the degree of Bachelor of Science in Agriculture must pass the Preliminary Examination prescribed by Ordinance No. 11 [General, No. 6—Regulations for Degrees in Arts]; and the conditions with respect thereto imposed by the said Ordinance (see pp. 186—193, 198) shall be applicable in all respects to this Ordinance, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics shall be passed on the higher standard;[2] (3) a degree in Arts (not being a degree *honoris causâ tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, shall exempt from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

III. (1) Candidates must in the course of not less than three Academical years, within the meaning of the Ordinance hereinbefore first mentioned, attend at least twelve courses of instruction, in the subjects specified in Section VIII. of this Ordinance.

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[1] Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the *University Calendar* for 1884-85, those who began in 1890, or 1891, or 1892 may qualify under the regulations contained in the *Calendar* for 1892-93.

[2] Candidates for the Degree of B.Sc. in Agriculture may offer themselves for examination in Mathematics on the intermediate instead of on the higher standard; provided that in addition to the ancient or modern language already taken they also offer themselves for examination in a modern language as a fifth subject, such further examination to be on the standard prescribed by the Joint Board for the Medical Preliminary.

(2) It shall be the duty of the Senatus to determine from time to time which of the said courses shall be full courses and which shall be half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

Under this subsection the Senate, with the approval of the University Court, has determined that of the subjects specified in Section VIII. of this Ordinance, Nos. 1, 2, 3, 4, 5, 6 and 10 shall be taught in full courses, and Nos. 7, 8, 9, 11 (*a*), 11 (*b*), 11 (*c*) and 12 in half courses, and that the number of meetings shall be those inserted in square brackets in Section VIII. opposite the several subjects.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Glasgow. The course in Agriculture and Rural Economy must also be taken in the University of Glasgow, if instruction in the said subjects be provided in the University, or in the West of Scotland Agricultural College[1]: Provided always that that course in the said College shall be accepted as equivalent to a course in the University, subject to the following conditions:—

(*a*) The Senatus Academicus shall be represented on the governing body of the Agricultural College.[1]

(*b*) All future appointments to the Chair of Agriculture in the Agricultural College[1] shall be vested in a Joint Committee, consisting of three members of the University Court and of three members of the governing body of the Agricultural College.[1]

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Agriculture: Provided that the fees for attendance at an approved Institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

(3) Residence and practical work at a farm shall be required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.

Under this subsection the following regulations have been made by the Senate, with the approval of the University Court.

1. Residence and practical work at a farm for twelve months shall be required, and the candidate must not be under sixteen years of age when he commences the residence.

2. The residence must be for twelve consecutive months, except in special cases in which the Senate may grant recognition of residence during two shorter periods amounting together to at least twelve months.

3. The candidate must produce evidence, satisfactory to the Senate, that he has fulfilled these regulations.

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[1] An ordinance was framed by the University Court on 6th August, 1900, and approved by His Majesty in Council on 24th July, 1901, which substituted the West of Scotland Agricultural College for the Glasgow and West of Scotland Technical College.

V. All students availing themselves of the permission to attend the lectures of the teachers in the various departments of Agriculture in the West of Scotland Agricultural College, or of teachers in other approved institutions in Glasgow, or of other recognised teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the matriculation fee paid by the students of the University, and having in respect of such payment a right to the use of the Library of the University.

VI. (1) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Faculty of Science for its consideration a syllabus of the subjects and books proposed for the work of their classes during the next Academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the immediately preceding section shall not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow, where such exist.

VIII. The subjects of study shall be as follows:—

1. Mathematics [100 meetings].
   or Biology, *i.e.*,
      Zoology [100 meetings, viz., 50 lectures and 50 practical].
      and
      Botany, [100 meetings, viz., 50 lectures and 50 practical].
2. Natural Philosophy [100 meetings].
3. Chemistry [100 meetings and three months in Chemical Laboratory].
4. Agriculture and Rural Economy [100 meetings].
5. Agricultural Chemistry [100 meetings, viz., 50 lectures and 50 practical].
6. Geology [75 meetings, viz., 50 lectures and 25 practical demonstrations].
7. Veterinary Hygiene [50 meetings].
8. Agricultural Botany [50 meetings].
9. Agricultural Entomology [25 meetings].
10. Economic Science as applied to Agriculture [100 meetings].[1]

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[1] The Glasgow and West of Scotland Technical College contemplates the institution of a special class for the teaching of this subject in 50 meetings. Until this special class shall be instituted candidates are required to attend the ordinary class of Political Economy [100 meetings]. After both classes are available students will have the option of taking either. In the examination prescribed under Section X. every candidate shall be required to work a paper of questions on Economic Science as applied to Agriculture.

11. One of the following:—
    - (*a*) Forestry [50 meetings].
    - (*b*) Experimental Physics [50 meetings].
    - (*c*) Engineering [50 meetings].
12. Engineering Field Work [50 meetings].

IX. (1) There shall be a First Science Examination in the three following subjects—viz., (1) Mathematics or Biology (*i.e.*, Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects shall be the same as the examination in these subjects for the degree of Bachelor of Science, under the provisions of Ordinance No. 12 [General, No. 7—Regulations for Degrees in Science].

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

X. (1) There shall be a Final Science Examination[1] in the remaining subjects (4 to 12 inclusive) specified in Section VIII. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination, and have attended the required courses in the subjects professed.

XI. A candidate for the degree of Bachelor of Science in Agriculture shall not be deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing, not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. The Examiners for the degree of Bachelor of Science in Agriculture shall be the Professors of the subjects in the Curriculum in the University of Glasgow, the Professor of Agriculture in the West of Scotland Agricultural College, and such additional Examiners as the University Court shall see fit to appoint.

General.

XIII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science in Agriculture, on payment of the fees required.

XIV. The degree of Bachelor of Science in Agriculture shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

XV. This ordinance came into force from and after the date on which it was approved by Her Majesty in Council, viz., 13th August, 1895.

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[1] The examination in Agricultural Botany, Agricultural Entomology, and Experimental Physics, may be practical.

TABLE OF EXAMINATIONS FOR DEGREE OF B.SC., TO BE HELD DURING SESSION 1903-4.

Names to be given in and Fees paid to Assistant-Clerk [1] (Matriculation Office). Date.[2]	FEE.	Subjects of Examination.	Dates of Written Examinations and Hours at which the different Papers will be set. The Oral Examinations in Science follow the Written at dates to be arranged.	
			September—October, 1903.	March—April, 1904.
10th September, 1903, or 10th March, 1904.	£1 1s. FOR EACH SUBJECT UNTIL £5 5s. SHALL HAVE BEEN PAID.	Mathematics, - - -	Fri., 25th Sept., 9—12 noon & 3—6 p.m.	Fri., 25th Mar., 9—12 noon & 3—6 p.m.
		Astronomy, - - -	Saturday, 26th Sept., 9—12 noon.	Saturday, 26th March, 9—12 noon.
		Geology, - - - -	Do., do., 1—3 p.m.	Do., do., 1—3 p.m.
		Zoology, - - - -	Monday, 28th Sept., 9—12 noon.	Monday, 28th March, 9—12 noon.
		Botany, - - - -	Do., do., 2—5 p.m.	Do., do., 2—5 p.m.
		Mathematics (Hon.), -	Do., do., 3—5 p.m.	Do., do., 3—5 p.m.
		Engineering Laboratory,	Do., do., 9—12 noon and 2—5 p.m.	Do., do., 9—12 noon and 2—5 p.m.
		Engineering Drawing, -	Tues., 29th Sept., 9—12 noon & 2—5 p.m.	Tues., 29th Mar., 9—12 noon and 2—5 p.m.
		Chemistry, - - -	Do., do., 9—12 noon.	Do., do., 9—12 noon.
		Naval Architecture, -	Do., do., 12.30—2.30 p.m.	Do., do., 12.30—2.30 p.m.
		Ship Drawing, etc., -	Do., do., 3—5 p.m.	Do., do., 3—5 p.m.
		Anatomy, - - -	Do., do., 9—12 noon.	Do., do., 9—12 noon.
		Physiology, - - -	Do., do., 2—5 p.m.	Do., do., 2—5 p.m.
		Engineering, - - -	Wed., 30th Sept., 9—12 noon & 2—5 p.m.	Wed., 30th Mar., 9—12 noon & 2—5 p.m.
		Economic Science, - -	Do., do., 6—9 p.m.	Do., do., 6—9 p.m.
		Engineering, - - -	Thur., 1st Oct., 9—12 noon & 2—5 p.m.	Thurs., 31st Mar., 9—12 noon & 2—5 p.m.
		Natural Philosophy, -	Fri., 2nd Oct., 9—12 noon & 2—5 p.m.	Fri., 1st April, 9—12 noon & 2—5 p.m.
		Agriculture, - - -	Do., do., 9—12 noon.	Do., do., 9—12 noon.
		Agric. Entomology, -	Do., do., 2—5 p.m.	Do., do., 2—5 p.m.
		Veterinary Hygiene, -	Saturday, 3rd Oct., 9—12 noon.	Saturday, 2nd April, 9—12 noon.
		Natural Philosophy, -	Do., do., 2—6 p.m.	Do., do., 2—6 p.m.

[1] For Women students, Miss Galloway, Queen Margaret College.

[2] When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged.

For Dates in regard to Science Preliminary Examination see page 191.

Certificate of Proficiency in Engineering Science.

Certificates of Proficiency in Engineering Science will be granted to students who shall have gone through the following course of study, practical work, and examinations, to the satisfaction of the Board of Examiners :—

1. Mathematics, including Analytical Geometry and Differential and Integral Calculus.
2. Natural Philosophy—the work of the Ordinary Class.
3. Chemistry.

And either :—

4, 5. Two courses in Engineering, including Laboratory Practice.

6, 7. Two courses of practical work in Drawing.

8. A course in one of the following :—
    - (*a*) Astronomy and Geodesy.
    - (*b*) Geology and Mineralogy.
    - (*c*) Naval Architecture.
    - (*d*) Engineering Laboratory, Mechanical or Electrical (special course).
    - (*e*) Electricity—Pure and Applied.

Or :—

4, 5. Two courses in Naval Architecture with Marine Engineering.

6, 7. Two courses of practical work in Ship and Engineering Drawing.

8. A course in Engineering, including Laboratory Practice.

Any candidate who commenced his course previous to session 1898-99 may complete it in accordance with the regulations published in the *Calendar* of 1897-98.

No candidate is admitted to the special examination for the certificate, in any department, till he has given regular attendance upon, and duly performed the work of the prescribed course of study in that department.

Diploma in Education.

The following regulations drawn up by the Senate were approved by the University Court on 26th April, 1900 :

1. Candidates for the Diploma in Education must be graduates in Arts or Science of a University in the United Kingdom, or of some other University recognised for this purpose by the University Court.

2. The diploma is of two grades : (*a*) General Diploma, and (*b*) Diploma with Distinction.

3. The general diploma is open to any graduate in Arts or Science who fulfils the following requirements :

(*a*) In addition to the curriculum for his Degree he must give attendance on a full course and pass the Degree examination on the same, subject to the condition that the regulations applicable to this additional course as a Degree course shall be fulfilled. This additional course may be taken at any time either before or after graduation.

(*b*) The Education course must in every case either constitute part of his Degree curriculum, or be the additional course prescribed in the preceding subsection.

(*c*) He must produce evidence either (1) that he has attended a course of Practical Instruction as a King's Scholar in a Training College for Teachers, or (2) that he has gone through a course of Practical Training in a Training College for Teachers—the course to extend over five months (not less than eight hours weekly), and to include instruction in School management, Practice in teaching, and a series of Model and Criticism Lessons.[1]

(*d*) He must pass a Written examination, conducted by the University, in School Management and Organisation and Methodology, and give proof of his practical skill by conducting a class to the satisfaction of an Examiner or Examiners appointed by the University.

N.B.—*The general Diploma is recognized by the Scotch Education Department as qualifying (in the case of graduates of the University of Glasgow) for employment in Public Schools. Graduates of this University who obtain the Diploma and desire recognition as Certificated Teachers must satisfy the Department of their physical capacity, and must produce satisfactory evidence as to age in the manner prescribed by the rules made under section 6 of the Elementary School Teachers (Superannuation) Act*, 1898. *Early application should be made to the Department for such recognition if it is desired.*

4. The Diploma with Distinction is open to any holder of an ordinary degree in Arts, any graduate in Arts with Honours, or any graduate in Science, who fulfils the requirements of the preceding regulation, and in addition passes an examination on the method of teaching one or more of the following groups of subjects as taught in Secondary Schools, viz. (*a*) Classics; (*b*) Mathematics; (*c*) Science; (*d*) English, including History; (*e*) French and German: Provided always that the holder of an ordinary Degree in Arts before being admitted to the examination on the method of teaching shall be required to pass an examination equivalent to an Honours or to a Final Science examination in the group or groups of subjects selected by him.

5. The Fee for the Diploma is Two Guineas.

Examinations for the Diploma will be held on Friday, 13th November, 1903, and on Friday, 29th April, 1904. Name of candidates to be given in to the Assistant-Clerk, Matriculation Office, on 31st October, 1903, or on 15th April, 1904.

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[1] Acting Teachers who produce their Parchment Certificates, or who produce evidence of having taught with success in Secondary Schools for two years, shall be held to have complied with this regulation, and may, on fulfilling the other requirements, receive the Diploma.

3.—HIGHER DEGREES IN ARTS AND SCIENCE.

In Ordinance No. 62, issued on 15th February, 1895, and approved by Her Majesty in Council on 29th June, 1895, the Universities Commission made the following regulations for Higher Degrees in Arts and Science :—

Degree of D.Sc.

I. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in Mathematics and Natural Philosophy under the conditions prescribed by Ordinance No. 11 (Regulations for degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Science (D.Sc.) in the same University after the expiry of five years from the date of their graduation in Arts, under the same conditions as if they held the degree of Bachelor of Science.

II. Research Students within the meaning of Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows) may offer themselves for the degree of Doctor of Science of the University in which they have prosecuted some special study or research under that ordinance, although they have not taken the degree of Bachelor of Science or the degree of Master of Arts with Honours as aforesaid, in that University: Provided—

(1) That they hold the degree of Bachelor of Science or Bachelor of Medicine of a Scottish or any recognized University, or a degree of any such University, which the Senatus Academicus shall hold to be equivalent to the degree of Bachelor of Science or to the degree of Master of Arts with first or second class honours in Mathematics and Natural Philosophy : Provided that candidates who hold any such degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Science, to pass an examination equivalent to an Honours or to a Final Science Examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and that they produce evidence of satisfactory progress in the special study or research undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

III. All candidates for the degree of Doctor of Science shall present a thesis or a published memoir or work,[1] to be approved by the Senatus on the recommendation of the Faculty of Science[2]: Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination conducted orally or practically, or by written papers, or by all of these methods, on the subjects of his special study or of his thesis, as may from time to time be determined. The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration signed by him that the work has been done and the thesis composed by himself.

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[1] The Thesis must be lodged and the fees paid on or before 9th January.

[2] Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

Degree of D.Phil.

IV. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in Mental Philosophy, under the conditions prescribed by Ordinance No. 11 (Regulations for Degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Philosophy (D.Phil.) in the same University after the expiry of five years from the date of such graduation.

V. Research Students as aforesaid may offer themselves for the degree of Doctor of Philosophy of the University in which they have prosecuted some special study under Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research, and for the appointment of Research Fellows), although they have not taken the degree of Master of Arts with Honours as aforesaid in that University: Provided—

(1) That they hold the degree of Master of Arts with first or second class honours in Mental Philosophy of any Scottish University, or a degree of any recognised University, which the Senatus Academicus shall hold to be equivalent to such degree with honours as aforesaid : Provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students, with a view to the degree of Doctor of Philosophy, to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

VI. All candidates for the degree of Doctor of Philosophy shall present a thesis or a published memoir or work,[1] which shall be an original contribution to learning, to be approved by the Senatus Academicus on the recommendation of a Committee appointed by the Senatus:[2] Provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

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[1] See first footnote on p. 230.

[2] Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

Degree of D. Litt.

VII. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in any group other than Mathematics and Natural Philosophy or Mental Philosophy, under the conditions prescribed by Ordinance No. 11 (Regulations for Degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Letters (D. Litt.) in the same University after the expiry of five years from the date of such graduation.

VIII. Research Students as aforesaid may offer themselves for the degree of Doctor of Letters of the University in which they have prosecuted some special study under Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research, and for the appointment of Research Fellows), although they have not taken the degree of Master of Arts with Honours as aforesaid in that University: Provided—

(1) That they hold the degree of Master of Arts with first or second class honours in any group except Mathematics and Natural Philosophy or Mental Philosophy of any Scottish University, or a degree of any recognised University, which the Senatus Academicus shall hold to be equivalent to such degree with honours as aforesaid : Provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Letters, to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

IX. All candidates for the degree of Doctor of Letters shall present a thesis or a published memoir or work,[1] which shall be an original contribution to learning, to be approved by the Senatus Academicus on the recommendation of a Committee appointed by the Senatus[2]: Provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

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[1] See first footnote on p. 230.

[2] Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

General.

X. The Senatus Academicus in each University shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves under the provisions either of Ordinance No. 12 (Regulations for Degrees in Science) or of this ordinance, for the degree of Doctor of Science, Doctor of Philosophy, or Doctor of Letters; and the University Court shall, after consultation with the Senatus Academicus, appoint an additional Examiner to act along with them.[1] Such additional Examiner shall be a person of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval. The result of the examination shall be reported to the appropriate Faculty or Committee of Senatus.

XI. The Degrees of Doctor of Science in Mental Science or Doctor of Science in Philology shall no longer be conferred by any Scottish University.

XII. Candidates who have already completed the necessary attendance on classes required for the degree of Doctor of Science in Mental Science or Doctor of Science in Philology, under regulations hitherto in force in any Scottish University, may proceed to the degree of Doctor of Philosophy, or of Doctor of Letters, as the case may be, under this ordinance: Provided such candidates comply with the provisions of Section VI. or Section IX. hereof, as the case may be, and that a period of not less than five years shall have elapsed from the date of their graduation as Masters of Arts.

XIII. The degrees of Doctor of Science, Doctor of Philosophy, and Doctor of Letters shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XIV. The fee to be paid for the degree of Doctor of Philosophy shall be ten guineas.

XV. The fee to be paid for the degree of Doctor of Letters shall be ten guineas.

4.—GRADUATION IN MEDICINE AND SURGERY.

The Degrees in Medicine and Surgery conferred by this University are all recognised by the Medical Acts as qualifying for practice throughout the British dominions, and for admission to the Army, Navy, and Public Medical Service.

Every student who began his medical studies previous to 1st January, 1892, is entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before[2] or after that date.

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[1] Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, empowers the University Court to appoint, as additional examiners under this section, persons who are Professors or Lecturers in any Scottish University other than the University granting the degree.

These regulations may be found at pp. 188—192 of the *University Calendar* for session 1895-96, and in the *Calendars* for preceding sessions.

All others must fulfil the requirements of the new ordinance—(Ordinance No. 14, Glasgow No. 1—Regulations for Degrees in Medicine)—the principal provisions of which are as follows :—

I. Four degrees in Medicine and Surgery are conferred by the University of Glasgow, viz., Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.), and Master of Surgery (Ch.M.). The Degree of Bachelor of Surgery shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Medicine, and the Degree of Bachelor of Medicine shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Surgery.

II. Subject to regulations to be made from time to time by the University Court, the University may also confer diplomas in Special Branches of Medical and Surgical Practice on graduates of the University in Medicine and Surgery.

III. Before commencing his medical studies, each student shall pass a Preliminary Examination in (1) English, (2) Latin, (3) Elementary Mathematics, and (4) Greek or French or German : Provided always that, in the case of a candidate whose native language is not English, an examination in the native language of the candidate may be substituted for one in either French or German, and an examination in any other classical language for one in Latin or Greek.[1]

IV. The extent and standard of the Preliminary Examination shall be determined by the Joint-Board of Examiners constituted under Ordinance No. 13 (Regulations as to Examinations) in accordance with the terms of that ordinance.

Under this section the Joint-Board have directed that for the Medical Preliminary Examination the papers set in Latin, Greek, and Mathematics shall be the same as those set on the lower standard in these subjects in the Arts and Science Preliminary Examination.[2]

In English, no set books shall be prescribed, nor shall a general knowledge of the life and works of the greater authors be expected of candidates, but one or two questions may be set, giving an opportunity to candidates to show a knowledge of famous literary works. The historical questions shall not be confined to any one period, but shall cover the whole of British History, and shall be set in such a way as to give an opportunity to candidates who have confined their studies to a single period to show their knowledge. A single three hours' paper shall be set, containing an Essay, a Paraphrase, two questions on History, two on Geography, four on Grammar (including correction of sentences, parsing, analysis of sentences, and derivations), two of a literary and general kind. Eight answers shall be required. The Essay, the Paraphrase, one answer on History and one on Geography shall be compulsory.

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[1] The candidate for the Degrees of Bachelor of Medicine and Bachelor of Surgery must have been registered in the books of the General Medical Council at least five years prior to the date of his graduation. In order to be so registered he must transmit to James Robertson, Esq., the Scottish Branch Registrar, 54 George Square, Edinburgh, together with a printed form of application, which may be obtained from the Assistant Clerk (Matriculation Office, University), a certificate of having passed the Preliminary Examination, and satisfactory evidence of the applicant having attained the age of sixteen years.

[2] For details see p. 188.

One paper shall be set in French and one in German. The papers shall be of a lower standard than those set in these subjects in the Arts and Science Preliminary Examination. The time allowed for each of these papers shall be three hours. The paper in each subject shall comprise questions in Grammar, translation into English, a piece of English, and some short sentences in English of an idiomatic character, for translation.

It shall be in the option of any candidate for the Medical Preliminary to take the papers set on the higher standard for the Arts Preliminary in any of the subjects.

Candidates who, having taken English, Latin, Greek, Mathematics, or a Modern Language, on the higher standard, as prescribed by the Arts Ordinance for the Arts and Science Preliminary, have obtained a satisfactory percentage of marks, shall be held to have passed the Medical Preliminary in these subjects: Provided that all the required subjects are passed at no more than two examinations.

It shall be at the Board's discretion at all times in the case of any candidate for the Medical Preliminary who professes all his four subjects at one time, and who has obtained in all a number of marks equivalent to the sum of the marks required for a pass in each, to allow such candidate a pass in the whole examination, provided that in no single subject he has obtained less than half of the marks required for a pass, and that the pass-mark be reached in the English paper.

V. The Preliminary Examination shall be conducted in accordance with the provisions of Ordinance No. 13 (Regulations as to Examinations), and, subject to the provisions of the immediately succeeding section hereof, *a candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; Provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.*[1]

VI. A degree in Arts or in Science (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination; and the Joint-Board of Examiners appointed under the provisions of Ordinance No. 13 (Regulations as to Examinations) shall have power to determine what examinations, other than those for the degrees hereinbefore mentioned, shall be accepted, either in whole or in part, in place of the Preliminary Examination.

The Joint-Board have issued the following rules under the heading:—Examinations accepted as exempting from the Preliminary Examination in Medicine: *Provided always that the regulations of the General Medical Council regarding the registration of students of Medicine be complied with*:—

1. In terms of the Medical Ordinances, "a degree in Arts or in Science (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination."

2. Any candidate who produces a certificate of having passed the Preliminary Examination in Arts or Science in any Scottish Uni-

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[1] The words in *italics* are taken from Ordinance No. 156, Section I.

versity, either at the University Examination or through the Leaving Certificate Examinations of the Scotch Education Department, or partly at the University Examination and partly through the Leaving Certificate Examinations, shall be held to have passed the Preliminary Examination for Medicine: Provided that the examination has included the specified subjects of General Education as required under the Regulations of the General Medical Council, and by Section III. of this ordinance.

3. A candidate who has passed the Arts and Science Preliminary Examination of the Joint-Board in any subject (Higher Standard where there is more than one) recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

4. A candidate who has passed the Leaving Certificate Examinations (Honours or Higher Grade) of the Scotch Education Department in any subject recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

The regulation that all the subjects of the examination shall be passed at one or not more than two examinations shall not be held to apply to the above cases, 2, 3, and 4. But candidates complying with Rules (2, 3, and 4) must obtain a University Certificate specifying the examinations passed by them which have been accepted as equivalents to the Preliminary, and must present said certificate to the Medical Registrar in order to registration.

Further, each such candidate when applying for said certificate must, if he has not entered for any part of the Preliminary, produce a Matriculation Card from some one of the Scottish Universities.

5. Passes in the lower Grade of the Leaving Certificate Examinations of the Scotch Education Department will only be accepted as exempting from the Medical Preliminary Examination provided the examinations in all the requisite subjects have been taken and passed at one or not more than two examinations.

6. The following English and Irish University Examinations will be accepted[1] (provided they include all the subjects required under the regulations of the General Medical Council, and prescribed by Section III. of this ordinance), viz.:—

OXFORD Responsions, or Moderations—provided the candidate pass the examination of the Joint-Board in English.

CAMBRIDGE Previous Examination—provided that candidates who have passed it prior to Michaelmas, 1896, shall pass the examination of the Joint-Board in English. If passed after Michaelmas, 1896, the Previous Examination will be accepted as exempting *in toto*.

OXFORD Senior Local Examinations will be accepted *pro tanto*, provided that, as regards English, the certificate shall bear that the candidate has passed in divisions (*a*), (*b*), and (*c*).

OXFORD Higher Examination for Women will be accepted *pro tanto*.

CAMBRIDGE Senior Local Examinations will be accepted *pro tanto*.

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[1] The italicised words in Section V., page 235, shall be held to apply to the acceptance of these Examinations.

CAMBRIDGE Higher Local Examinations will be accepted *pro tanto*.

OXFORD and CAMBRIDGE Schools Examination Higher Certificate will be accepted *pro tanto*, provided that, as regards Mathematics, the certificate shall bear that the candidate has passed in both Elementary and Additional Mathematics.

LONDON UNIVERSITY Matriculation Examination.

DUBLIN, TRINITY COLLEGE.—Public Entrance Examination.

ROYAL UNIVERSITY OF IRELAND.—Matriculation Examination.

VICTORIA UNIVERSITY.—Preliminary Examination; Entrance Examination in Arts.

By *pro tanto* is here meant that a certificate of having passed in the examination referred to, in any subject required for the Medical Preliminary Examination, shall, as regards that subject, exempt from further examination in the said Preliminary Examination, provided that all the required subjects shall be passed at one or not more than two examinations.

7. The examinations of the following Indian, Colonial, and Foreign Universities and Colleges will be accepted[1] (provided the examinations include all the subjects required by the General Medical Council and prescribed by Section III. of this ordinance), viz.:—

UNIVERSITIES OF (1) CALCUTTA, (2) MADRAS, (3) BOMBAY, (4) ALLAHABAD, and (5) PANJAB—Entrance Examination.

UNIVERSITIES OF (1) THE CAPE OF GOOD HOPE.—Matriculation Examination; (2) TASMANIA.—Matriculation Examination; (3) NEW ZEALAND.—Matriculation and Medical Preliminary Examinations; (4) MELBOURNE.—Matriculation Examination; (5) SYDNEY.—Matriculation Examination; (6) ADELAIDE.—Matriculation Examination, or its substitute, the Senior or Junior Public Examination.

THE PROVINCIAL EDUCATION DEPARTMENT OF ONTARIO.—Departmental Pass Arts Matriculation Examination.

TRINITY UNIVERSITY, TORONTO.—Matriculation Examination.

THE UNIVERSITY OF TORONTO.—Senior or Junior Matriculation Examination.

QUEEN'S COLLEGE AND UNIVERSITY, KINGSTON.—Matriculation Examination.

M'GILL UNIVERSITY.—Matriculation Examination.

KING'S COLLEGE, WINDSOR, NOVA SCOTIA.—Responsions.

DALHOUSIE COLLEGE, HALIFAX.—Matriculation Examination.

MOUNT ALLISON COLLEGE, SACKVILLE, NEW BRUNSWICK.—Matriculation Examination.

THE UNIVERSITY OF WINNIPEG.—Preliminary Examination in Arts.

VICTORIA COLLEGE, UPPER CANADA.—Matriculation Examination.

THE UNIVERSITY OF HALIFAX, NOVA SCOTIA.—Matriculation Examination.

THE UNIVERSITY OF FREDERICTON, NEW BRUNSWICK.—Matriculation Examination.

THE WESTERN UNIVERSITY OF ONTARIO.—Matriculation Examination.

THE UNIVERSITY OF MANITOBA.—Previous Examination.

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[1] See note on page 236.

Codrington College (Barbados).—English Certificate for Students of two years' standing, and Latin Certificate, or "Testamur."

Germany and other Continental Countries.—Gymnasial Abiturienten-Examen, and corresponding Entrance Examinations to the Universities.

8. In the case of candidates for the Medical Preliminary Examination, who hold qualifications from Foreign or Colonial Bodies, other than Universities, whose certificates are not included in the list of Equivalent Examinations issued by the Joint-Board, a committee in each University, consisting of the Deans of the Faculties of Arts, Science, and Medicine, is empowered to accept such certificates, if it deems them sufficient, provided that all such cases are reported to the Joint-Board at their meeting next following.

[Students would do well to ascertain at the Matriculation Office whether their Preliminary Examination is complete before beginning their medical studies.]

Professional Education.[1]

VII. Candidates shall be admitted to the Degree of Bachelor of Medicine and Bachelor of Surgery only after they have fulfilled the following conditions:—

1. The candidate must have been engaged in medical study for at least five years.
2. In each of the first four years the candidate must have attended at least two courses of instruction, in one or more of the subjects of study specified in Sub-section 4 hereof—each course extending over a session of not less than five months, either continuous or divided into two terms; or, alternatively, one such course, along with two courses, each extending over a session of not less than two and a half months.
3. During the fifth or final year the candidate shall be engaged in clinical study for at least nine months at one or more of such public hospitals or dispensaries, British or Foreign, as may be recognised for the purpose by the University Court.
4. The candidate must, during his curriculum, have attended a course or courses of instruction in each of the following subjects of study, including such examinations as may be prescribed in the various classes, viz.:—

1. Anatomy,	During a course of not less than five months.
2. Practical Anatomy,	During two courses of not less than five months each.
3. Chemistry,	During courses of not less than five months
4. Materia Medica and Therapeutics,	
5. Physiology or Institutes of Medicine,	
6. Practice of Medicine,	
7. Surgery,	
8. Midwifery and the Diseases peculiar to Women and Infants. Two courses of Midwifery, of three months each, provided different departments of Obstetric Medicine be taught in each of the courses, shall be reckoned equivalent to a course of not less than five months,	
9. Pathology,	

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[1] For Order of Study recommended, see p. 97.

10. Practical Chemistry,	During courses of not less than two and a half months.
11. Physics (including the Dynamics of Solids, Liquids, and Gases, and the Rudiments of Sound, Heat, Light, and Electricity),	
12. Elementary Botany,	
13. Elementary Zoology,	
14. Practical Physiology,	
15. Practical Pathology,	
16. Medical Jurisprudence and Public Health,	

Provided always, in so far as regards the University of Glasgow, that—

(*a*) It shall be the duty of the Senatus to determine from time to time [after receiving through the Faculty of Medicine the opinion of the Board of Studies] the number of meetings of which such courses shall consist, and in what cases two half courses shall be deemed equivalent to a full course ; and to report the determination to the University Court for its approval.[1]

(*b*) It shall be the duty of the Professors and Lecturers to submit to the Senatus [after 1st October, 1894, the Board of Studies] annually at the end of the winter session a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. [The Board of Studies shall transmit the schemes to the Faculty of Medicine, who shall submit them to the Senate with such observations as they may think fit to make thereon.] The Senatus shall transmit such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.[1]

(*c*) The University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

5. The candidate must have attended for at least three years the Medical and Surgical Practice of a General Hospital at Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons, and is recognised for the purpose by the University Court.[2]
6. The candidate must have attended Clinical Surgery during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical Surgery, or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary surgeons of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.
7. The candidate must have attended Clinical Medicine during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical

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[1] The Universities Commission, on 18th November, 1893, ordained that for the better carrying out of the purposes of these provisos the Senate should institute a Board or Boards of Studies in the Faculty of Medicine. See Section I., Ordinance No. 42, which received the approval of Her Majesty in Council on 28th May, 1894. The provisions of this supplementary ordinance have, in the text, been combined with the provisions of the original ordinance, by means of square brackets.

[2] On 7th October, 1892, the University Court recognised every General Hospital in the United Kingdom which accommodates not fewer than eighty patients, *and possesses a distinct staff of physicians and surgeons.*

Medicine, or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary physicians of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.

8. The candidate must have attended a course of instruction in Mental Diseases, of such duration, and so apportioned between lectures, demonstrations, and clinical instruction, as the Senatus, with the approval of the University Court, may from time to time determine.

   Under this sub-section the Senate, with the approval of the University Court, has determined that each candidate for the Degree of M.B. and Ch.B. shall be required to attend a course of instruction in Mental Diseases, given by the University Lecturer or by a recognised teacher, consisting of not less than eighteen meetings. Six of these may be class-room lectures, and the others shall be demonstrations in the wards of an asylum for the insane.

9. The candidate must have attended a course of twenty-five meetings on Practical Pharmacy in a University or recognised School of Medicine, or have dispensed drugs for a period of three months in an hospital or dispensary, or in an establishment recognised by the Pharmaceutical Society, *i.e.* in *the establishment of any chemist and druggist or pharmaceutical chemist of Great Britain, or any pharmaceutical chemist of Ireland, who is registered in the books of the Pharmaceutical Society of Great Britain or of the Pharmaceutical Society of Ireland respectively.*[1]

10. The candidate must have attended, for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or the practice of a dispensary, or of a physician or surgeon, or of a member of the London or Dublin Society of Apothecaries. He must have acted as clerk in the medical and dresser in the surgical wards of a public hospital; and must also have availed himself, to such an extent as may be required by the Senatus, with the approval of the University Court, of opportunities of studying at an hospital or dispensary *Post-mortem* Examinations, Fevers, Diseases of Children, Ophthalmology, or such other special departments as may from time to time be determined.

    Under this sub-section the Senate, with the approval of the University Court, has determined as follows:—

    A. Each candidate for M.B. and Ch.B. shall be required to attend—

    1. Demonstrations in the *post-mortem* room of a recognised hospital, with practical instruction in making *post-mortem* examinations. The student must have attended during his curriculum at least twenty examinations.
    2. A course of clinical instruction in Fevers, consisting of at least ten meetings in a hospital for infectious diseases containing not less than fifty beds.
    3. A practical course of instruction in Ophthalmology of not less than twenty meetings. Six of these may be class-

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[1] The explanatory words in italics are taken from Ordinance No. 54, Section II., issued by the Universities Commission on 18th July, 1894, which came into operation on 11th May 1895, having been on that date approved by Her Majesty in Council.

room lectures, and the others shall be for clinical instruction in the wards of a recognised hospital,[1] or in the wards of a hospital and in a dispensary both recognised for the purpose. The course shall include sufficient practical instruction in the methods of examining the eye.

B. Each candidate is also recommended to attend the following:—(*a*) Diseases of Children, (*b*) Diseases of the Ear, (*c*) Diseases of the Throat and Nose, and (*d*) Diseases of the Skin, in short practical courses of ten meetings.

N.B.—This is not to be understood as preventing a teacher in any speciality giving a fuller course to such students as may desire to follow out more fully any particular branch.

11. The candidate must have attended, under the superintendence of a registered medical practitioner, twelve cases of labour, or such additional number as the Senatus, with the sanction of the University Court, may from time to time determine; or have attended for three months the practice of a lying-in hospital, or of the maternity department of a general hospital or other public charitable institution, and have conducted personally six, or such an additional number of cases of labour as the Senatus, with the approval of the University Court, may from time to time determine.

12. The candidate must have been properly instructed in Vaccination at a Public Vaccination Station, by a Public Vaccinator, authorised by the proper Government Authority to grant Certificates of Proficiency in Vaccination.[2]

13. No candidate for a degree shall be deemed to have attended a class as part of the curriculum necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

VIII. With respect to the places and institutions at which the studies of the candidate may be prosecuted, the following regulations shall have effect:

1. Two of the five years of medical study must be spent in the University of Glasgow, each year of study including always the attendances specified in Section VII., sub-section 2.

2. The remaining three years may be spent in any University of the United Kingdom, or in any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such medical schools or under such teachers as may be recognised for the purpose by the University Court, each year of study during the first four years including always the attendances specified in Section VII., sub-section 2.

3. Of the subjects of study specified in Section VII., sub-section 4, not less than eight must be taken in the University of Glasgow, or (subject always to the provisions as to attendance contained in the immediately preceding sub-sections) in some other University of the United Kingdom, or in some Foreign or Colonial Univer-

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[1] This means a hospital recognised *ad hoc*, after application to the University Court in each case.

[2] The recognised Vaccine Departments in Glasgow are—Western Infirmary and Royal Infirmary

sity entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court, or in a College incorporated with, or affiliated to a University entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court: Provided always that where in any of said subjects of study two or more courses are required, the taking of one of those courses shall constitute a taking of the subject for the purpose of this sub-section.

4. The remainder of such subjects of study may (subject always as aforesaid) be taken in such medical schools or under such teachers as may be recognised for the purpose by the University Court.
5. All candidates, not Matriculated Students of the University, availing themselves of the permission to attend the Lectures of Extra-Academical Teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having, in respect of such payment, a right to the use of the Library of the University.
6. The fee for attendance, for purposes of graduation, on the courses of instruction of recognised Extra-Academical Teachers in Glasgow shall be not less than the amount exigible for the corresponding courses in the University.
7. The University Court shall not recognise as qualifying for examination in any of the subjects specified in Section VII., sub-section 4, the class of any teacher who is at the time a teacher of more than one of the said subjects, except in those cases where Professors in the University are at liberty to teach two subjects: Provided always that a Professor or other teacher in any endowed public College or institution, who by the terms of his appointment is required to teach more than one subject of medical study therein, may be recognised under sub-section 2 of this section, as a teacher of any one of the subjects which he teaches.
8. A teacher, attendance on whose course of instruction shall, before the date of the approval of this ordinance by her Majesty in Council, have been recognised for the purposes of graduation in the University, shall not require to obtain a new recognition from the University Court; and attendance on the course of instruction of every such teacher may continue to be recognised as heretofore.
9. It shall be in the power of the University Court, if it shall see cause, at any time to withdraw or suspend any recognition which it may have granted.

IX. In the University of Glasgow it shall be the duty of the Professors of the subjects specified in Section VII., sub-section 4 hereof (except Practical Anatomy and such other subjects as the Senatus, with the approval of the University Court, may from time to time determine), so to conduct the courses that Students may receive instruction sufficient for graduation in any one of the said subjects by attendance on one course of five or six months, or of two and a half or three months, as the case may be.[1]

X. If any candidate shall, before presenting himself for his Preliminary Examination, have attended in any University of the United Kingdom, or in any University or Institution specially approved, or under any Teacher specially recognised for the purpose by the University Court, a course or courses of instruction in Physics, Chemistry, Botany, or Zoology, equivalent in the judgment of the Senatus to the qualifying course in the same subject in the University of Glasgow, such attendance shall (notwithstanding anything hereinbefore ordained) be held as entitling him to be examined in these subjects; and if the candidate shall have attended such course or courses in each of the said subjects, he shall be held to have completed his first year of Medical Study: Provided always that the evidence of such attendance at such equivalent course or courses shall be presented to the Senatus at the time when the candidate presents himself for his Preliminary Examination; and the Senatus shall, if satisfied, grant a certificate to that effect: Provided also that *the provisions of this section shall not have effect except where the University Court shall allow their application after a report by the Senatus Academicus, setting forth special grounds therefor in the case of any candidate named in the report.*[2]

Professional Examination for the Degrees of Bachelor of Medicine and Bachelor of Surgery.[3]

XI. Each candidate shall be examined both in writing and orally, and also clinically where the nature of the subject admits, in the following divisions, viz.:—*First*, in Botany, Zoology, Physics, and Chemistry; *Second*, in Anatomy, Physiology, and Materia Medica and Therapeutics, *Third*, in Pathology, and Medical Jurisprudence and Public Health; *Fourth*, in Surgery and Clinical Surgery, Practice of Medicine and Clinical Medicine, and Midwifery.

In subjects which admit of practical instruction, the examination shall be such as to test the practical acquirements of the candidate.

Provided always that if a candidate have obtained in a University of the United Kingdom, or other University specially recognised for the purpose by the University Court, a degree in Science or in Arts, granted in either case after a course of study and an examination in Botany, Zoology, Physics, and Chemistry, he shall be held to have passed his examinations in the said subjects.

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[1] Doubt being entertained as to the construction of this Section, the question was submitted to the Universities Commissioners, and evoked from them the following deliverance:—

It is not intended to require of the Professor a complete course of instruction by lectures during each session, or to limit the examinations for degrees to subjects which shall be discussed in the lectures of the Professor at the time that the student attended the course. The word "instruction," as used in this Section, is to be held to include lectures upon such parts of the subject as the Professor may be able to overtake, supplemented by directions as to the use of text-books or other sources of information for the remainder of the subject: and it is also intended that the examinations may be taken over the whole field, even when the Professor has not been able to include it all in his course of lectures.

[2] The proviso in italics is taken from Ordinance No. 54, Section V., issued by the Universities Commission on 18th July, 1894, which came into operation on 11th May, 1895, having been on that date approved by Her Majesty in Council.

[3] For Table of Fees and Dates of Examinations, see page 250.

Provided also that *if a candidate have completed in a University of the United Kingdom a course of study and passed an examination in Botany, Zoology, Physics, or Chemistry qualifying for a degree in Science or in Arts, he shall be held to have passed the examinations in such subject or subjects.*

If a candidate have obtained a degree in Science or in Arts in any University other than a University of the United Kingdom, granted in either case after a course of study and an examination in Botany, Zoology, Physics, or Chemistry, it shall be in the power of the University Court to exempt such candidate from the examinations in such subject or subjects: Provided that the course of study and the standard of examination in each case are satisfactory in the judgment of the Senatus Academicus.[1]

XII. Candidates who profess themselves ready to submit to an examination in the subjects comprised in the first division, viz.:—Botany, Zoology, Physics, and Chemistry, may be admitted to examination in all or any two of these subjects at any examination held after they have attended a full course in each of the subjects professed.

XIII. Candidates who have passed their examination in the subjects comprised in the first division may be admitted to examination in the second division at the end of the third winter session.

Provided that candidates who so desire may postpone their examination in Materia Medica and Therapeutics until the close of the summer session following.

XIV. Candidates who have passed their examinations in the subjects comprised in the first and second divisions may be admitted to examination in the third division at the end of the fourth winter session.

Provided that candidates who so desire may postpone their examination in Medical Jurisprudence and Public Health until the close of the summer session following.

XV. Candidates who have passed their examinations in the subjects comprised in the first, second, and third divisions may be admitted to examination in the fourth or final division, when they have completed the fifth year of study.

XVI. If any candidate at these examinations be found unqualified in one or more subjects he shall not again be admitted to examination unless he has pursued his medical studies for such time, and subject to such conditions, as the Faculty of Medicine may prescribe.

Under this section the Faculty of Medicine, with the sanction of the Senate, has laid down the following rule: No student, who in the Final Professional Examination has been found unqualified in one subject, shall be re-admitted to examination without furnishing evidence of having further studied the subject for such a period as the Examiners may fix.

XVII. If any candidate at these examinations be found to have passed in one or more subjects with sufficient merit, he shall not be liable to re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects comprised in the same division as hereinbefore specified.

XVIII. Every candidate must deliver, on or before such day as the

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[1] The words in italics are taken from Ordinance No. 54, Sections III. and IV., issued by the Universities Commission on 18th July, 1894, which came into operation on 11th May, 1895, having been on that date approved by Her Majesty in Council.

Senatus may from time to time determine, to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation, and that he will not be, on the day of graduation, under articles of apprenticeship to any surgeon or other master.

XIX. After the candidate has satisfied the Examiners, the Dean of the Faculty of Medicine shall lay the proceedings before the Senatus, by whose authority the candidate shall be admitted, on such day as the Senatus may from time to time appoint, to the Degrees of Bachelor of Medicine and Bachelor of Surgery, on payment of the required fees.[1]

XX. Candidates for graduation shall produce evidence of their having conformed to the regulations which were in force at the time they commenced their medical studies: Provided that any student who began his medical studies before 1st January, 1892, shall be entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before[2] or after that date.

Professional Examination for the Degree of Doctor of Medicine.

XXI. 1. Subject to the conditions hereinafter specified, the Degree of Doctor of Medicine shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.

2. Each candidate for the Degree of Doctor of Medicine shall be required to pass an examination in Clinical Medicine and in such of its special departments as the Senatus, with the approval of the University Court, by Regulations framed from time to time, shall determine; and he may present himself for examination in Clinical Medicine at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

Under this sub-section the following regulations have been framed by the Senatus, and approved by the University Court:—The Examination in Clinical Medicine for the Degree of Doctor of Medicine shall for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable, upon at least three Medical cases. In the selection of the cases, special regard shall be given to the opportunities they afford for testing the candidate, not only in the ordinary methods of clinical investigation, but also in the more advanced methods requiring practical knowledge in the applications of the ophthalmoscope and laryngoscope, in the chemical and microscopical examination of excreta, the quantitative determination and microscopic characters of the chief constituents of blood possessing clinical importance, the recording by instruments of the condition of the circulation, the applications of electricity, etc.

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[1] For Table of Fees and Dates of Examination, see page 250.

[2] These regulations may be found at pp. 188—192 of the *University Calendar* for session 1895-96, and in the *Calendars* for preceding sessions.

Provided always that one of the cases on which a candidate is examined may, if the candidate on entering his name for the Examination declare a wish to that effect, be from one of the following departments, namely, Diseases of Women, Diseases of Children, Mental Diseases, Zymotic Diseases, Diseases of the Eye, Diseases of the Throat, Diseases of the Ear, Diseases of the Skin. Should the candidate specialise in one of these departments he will be expected to show high proficiency in it.

The examinations for M.D. will be held in the month of November or December, each Session. Candidates must enter their names and lodge their Theses with the Assistant Clerk (Matriculation Office) on or before 1st October.

3. Each candidate for the Degree of Doctor of Medicine shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects which are exclusively Surgical ; and the Thesis, accompanied by a declaration signed by the candidate, that the work has been done and the Thesis composed by himself,[1] shall be lodged with the Dean of the Faculty of Medicine (at the Matriculation Office) on or before a date to be fixed by the Senatus (1st October).

4. A Bachelor of Medicine and Bachelor of Surgery, who produces to the Senatus satisfactory evidence of his intention of entering within twelve months after obtaining such degrees on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to the examination in Clinical Medicine at any period of examination after he has received such degrees; but the Degree of Doctor of Medicine shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively surgical, and unless his Thesis in the judgment of the Faculty of Medicine is of exceptional merit.

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[1] The Faculty of Medicine give notice that no Thesis will be approved unless it gives evidence of original observation, or, if it deal with the researches of others, gives a full statement of the literature of the question, with accurate references and critical investigation of the views or facts cited: mere compilations will in no case be accepted.

Bachelors of Medicine and Masters of Surgery of the University of Glasgow, who have graduated under the regulations in force before the fifth day of August, 1892, *may proceed to the Degree of Doctor of Medicine under the provisions of this section, in the same manner as if they held the Degree of Bachelor of Surgery.*[1]

PROFESSIONAL EXAMINATION FOR DEGREE OF MASTER OF SURGERY.

XXII. 1. Subject to the conditions hereinafter specified the Degree of Master of Surgery shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged, subsequently to his having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in practice other than practice restricted to Medicine.

2. Each candidate for the Degree of Master of Surgery shall be required to pass an examination in the following subjects:—Surgical Anatomy, Operations upon the dead body, and Clinical Surgery, and in such of the special departments of Clinical Surgery as the Senatus, with the approval of the University Court, by Regulations framed from time to time, may determine; and he may present himself for examination in these subjects at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

Under this sub-section the following regulations have been framed by the Senatus, and approved by the University Court:—The Examination in Clinical Surgery for the Degree of Master of Surgery shall for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable on at least three Surgical cases.

Provided that one of the three Surgical cases on which a candidate is examined shall, if the candidate on entering his name for the Examination declare a wish to that effect, be from one of the following departments, namely, Surgical Diseases of Women, Diseases of the Throat, Diseases of the Eye, Diseases of the Ear. Should the candidate specialise in one of these departments he will be expected to show high proficiency in it.

3. Each candidate for the Degree of Master of Surgery shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth Examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects that are exclusively medical; and the Thesis, accompanied by a declara-

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[1] Taken from Ordinance No. 54, Section VI., which was issued by the Universities Commissioners on 18th July, 1894, and came into operation on 11th May, 1895, having on that date been approved by Her Majesty in Council.

tion signed by the candidate that the work has been done and the Thesis composed by himself,[1] shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.

4. A Bachelor of Medicine and Bachelor of Surgery who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such degrees, on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to examination in the subjects specified in Sub-section 2 of this section, at any period of examination after he has received such degrees; but the Degree of Master of Surgery shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively medical, and unless his Thesis, in the judgment of the Faculty of Medicine, is of exceptional merit.

FEES.

XXIII. The fee to be paid for the Degrees of Bachelor of Medicine and Bachelor of Surgery shall be twenty-two guineas, and the proportion of this sum to be paid by a candidate at each division of the examination shall be regulated from time to time by the University Court. The fee to be paid for the Degree of Doctor of Medicine shall be ten guineas, exclusive of any stamp duty which for the time may be exigible. The fee to be paid for the Degree of Master of Surgery shall be ten guineas.

EXAMINERS.

XXIV. The Examiners for graduation in Medicine in the University of Glasgow shall be the Professors in that University, together with such Lecturers in the University and such additional Examiners, to be appointed by the University Court, as the University Court shall deem necessary: Provided that the Court shall make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, of whom one shall not be a Professor or Lecturer in the University. The examinations shall be conducted in writing and orally and also clinically, when the nature of the subject admits, under regulations framed by the Senatus subject to the approval of the University Court.

DISTINCTIONS ATTAINABLE BY STUDENTS AND GRADUATES OF MEDICINE.

Candidates who have shown special merit in any subject or subjects at any of the Professional Examinations will be announced as having passed in such subject or subjects "with distinction."

Candidates who have shown special merit as indicated by the aggregate results of the four Professional Examinations will be announced, at the time of Graduation, as having obtained Commendation or Honours, according to the degree of excellence.

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[1] See footnote on page 246.

In connection with the Higher Degrees in Medicine and Surgery two grades of distinction are also awarded, viz., Commendation and Honours. The Bellahouston Trustees have put it in the power of the University to award three Gold Medals yearly to those who having gained Honours are pronounced by the Senate on the Report of the Faculty of Medicine worthy of this highest distinction for the excellence of their Theses.

GRADUATION.

The terms for conferring Medical and Surgical Degrees in session 1903-4 are 5th November, 1903 ; 4th February, 1904 ; 19th April, 1904 ; and 19th July, 1904.

Candidates proceeding to graduation, if not already Members of the General Council of the University, are required by the Act, 44 and 45 Vict., ch. 40, to pay to the Registrar of the General Council the Registration Fee, and furnish to him the particulars required for their enrolment in the General Council. This should in all cases be done at least two clear days before the day of graduation.

In accordance with the Promissory Oaths Act, 1868, a Declaration in the following English form is now substituted for the Latin Oath,[1] formerly required to be taken and subscribed by every candidate on graduation :—

I make this solemn declaration in virtue of the Provisions of the Promissory Oaths Act, 1868, substituting a Declaration for Oaths in certain cases.

I do solemnly and sincerely declare, that, as a Graduate in Medicine of the University of Glasgow, I will exercise the several parts of my profession, to the best of my knowledge and abilities, for the good, safety, and welfare of all persons committing themselves, or committed to my care and direction ; and that I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice, for any consideration, or from any motive whatever. And I further declare, that I will keep silence as to anything I have seen or heard while visiting the sick which it would be improper to divulge.

REGISTRATION OF MEDICAL PRACTITIONERS.

Graduates should register as soon as possible with the Branch Registrar for Scotland, at 54 George Square, Edinburgh. Fee £5 1s. Additional qualifications, 5s. each. Forms of application may be had from the Assistant-Clerk (Matriculation Office).

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[1] *The Oath was in these words*:—Testor Deum omnipotentem me hoc Iusjurandum pro virili servaturum ; Victus rationem aegris commodam et salutarem praescripturum : nullius intercessione nec sponte noxium pharmacum cuiquam propinaturum ; sed sancte et caste vitam artemque meam instituturum ; In quascunque domos intravero ad aegrotantium duntaxat salutem ingressurum et ab omni injuria inferenda procul futurum : Quaecunque inter curandum videro audiverove siquidem ea efferre non expediat silentio suppressurum.

TABLE OF EXAMINATIONS FOR DEGREES IN MEDICINE TO BE HELD DURING SESSION 1903-4.

Fees.	Names to be given in and Fees paid to Assistant-Clerk[1] (Matriculation Office). Date.[2]	Dates of Written Examinations and Hours at which the different Papers will be set. Printed Schedules with detailed instructions for filling up may be obtained from the Assistant-Clerk[1] (Matriculation Office). The Professional Oral Examinations follow immediately after the Written.				
Under the Old Regulations the Fee for each Professional Examination is £5 5s.; under the New, the Fees are—First, £6 6s.; Second, £6 6s.; Third, £5 5s.; Fourth, £5 5s.	10th September, 1903,	1903. Mon., 28th Sept.,	Zoology	9—11 a.m.	Botany	2—4 p.m.
		Mon., 28th ,,	Materia Medica	9—11 a.m		
		Tues., 29th ,,	Chemistry	9—11 a.m.	Physics	2—4 p.m.
		Tues., 29th ,,	Anatomy	9—11 a.m.	Physiology	2—4 p.m.
		Wed., 30th ,,	Medical Jurisprudence	9—12 noon.	Pathology	2—4 p.m.
	10th March, 1904,	1904. Mon., 28th March,	Zoology	9—11 a.m.	Botany	2—4 p.m.
		Mon., 28th ,,	Materia Medica	9—11 a.m.		
		Tues., 29th ,,	Chemistry	9—11 a.m.	Physics	2—4 p.m.
		Tues., 29th ,,	Anatomy	9—11 a.m.	Physiology	2—4 p.m.
		Wed., 30th ,,	Medical Jurisprudence	9—12 noon.	Pathology	2—4 p.m.
	26th May, 1904,	1904. Thurs., 16th June,	Practice of Medicine	10—12 noon.	Surgery	2—4 p.m.
		Fri., 17th ,,	Midwifery	10—12 noon.		
		Fri., 17th ,,	*(Clinical Examinations begin).*			

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[1] For Women Students, Miss Galloway, Queen Margaret College.

[2] When names are not given in and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be enrolled for examination. A candidate is not held to be enrolled for examination until his name is entered, the fee paid, and all the necessary Certificates, etc., lodged. Every candidate must matriculate at the University for the session in which he enters for professional examination or for graduation.

For Dates in regard to Medical Preliminary Examination, see page 191.

5.—GRADUATION IN LAW.

Two Degrees in Law are conferred, after examination, by the University of Glasgow, viz., Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

By regulation of the Faculty of Advocates, any one who has obtained the Degree of LL.B. from a Scottish University is held qualified in General Scholarship and Law with a view to admission to the Bar, without examination or other evidence of such qualification, except as stated on page 118.

By the Law Agents Act, 36 and 37 Vict., c. 63, the holder of a degree in Law or in Arts of a University in Great Britain or Ireland, granted after examination, is qualified to apply for admission as a Law Agent after an apprenticeship of three years, instead of five, as required in the ordinary case; and by Act of Sederunt of 20th July, 1878, any applicant who holds the Degree of LL.B. or of B.L. of any Scottish University is exempted from any examination in Law before the Examiners of Law Agents, excepting only on forms of Process, Civil and Criminal, and a similar provision is contained in the Act of Sederunt of 18th March, 1893.

Degree of LL.B.

The following are the provisions of Ordinance No. 39, General No. 11, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, after 30th September, 1894,[1] began their course of study with a view to graduation in Law:—

I. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Laws (LL.B.) unless he be a graduate in Arts or one of the Universities of the United Kingdom; or of any Foreign or Colonial University specially recognised for the purpose by the University Court.

II. The course of study in Law for the Degree of Bachelor of Laws shall include the following subjects:—

(1) Jurisprudence, General or Comparative, during a course of not less than forty lectures.
(2) The Law of Nations or Public International Law, during a course of not less than forty lectures.
(3) Civil Law during a course of not less than eighty lectures.
(4) Law of Scotland, or Law of England, during a course of not less than eighty lectures.
(5) Constitutional Law and History, during a course of not less than eighty lectures.
(6) Conveyancing, during a course of not less than eighty lectures; or Political Economy, or Mercantile Law, during a course of not less than eighty lectures.
(7) Any two of the following subjects, namely:—International Private Law, Political Economy, Administrative Law, and Forensic Medicine; in each case during a course of not less than forty lectures.

III. (1) The course of study necessary for the Degree of Bachelor of Laws shall extend over three academical years, one of which at least must be spent in the University in which the candidate intends to graduate, the other two may have been spent in any other University or School of Law specially recognised by the University Court.

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[1] Students who began their course previous to 1894 may qualify themselves for graduation in Law under the old regulations, which are given at pp. 227-229 in the *University Calendar* for 1900-1901 and in the *Calendars* for preceding sessions.

(2) No candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

IV. Candidates must undergo examination in the subjects prescribed in Section II. hereof; and they must pass at one examination in at least two of these subjects. Before presenting themselves in any subject the candidates must have attended the requisite course of instruction in such subject. Candidates who have passed an examination for another degree in any of the said prescribed subjects in the same University may be exempted from examination in such subject or subjects, provided that the Examiners are satisfied that the previous examination in such subject or subjects has been passed on a sufficiently high standard.

V. Every candidate for the Degree of Bachelor of Laws shall be examined both orally and in writing on each of the subjects in the course of study above prescribed in which he presents himself for examination.

VI. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Laws a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of or Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the Senatus Academicus.

VIII. Every student who at the time when this ordinance shall come into operation shall have completed a part of his course with a view to graduation as Bachelor of Laws in any Scottish University, under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Laws without complying with the provisions of this ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this ordinance.

X. This ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council. [Approved on 28th May, 1894.]

Degree of B.L.

The following are the provisions of Ordinance No. 40, General No. 12, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, after 30th September, 1894, began their course of study with a view to graduation in Law.

I. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Law (B.L.) unless he be a graduate in Arts of one of the Universities of the United Kingdom, or of any Foreign or Colonial University specially recognised for the purpose by the University Court; or until he shall have passed—

A. The Preliminary Examination in the Faculty of Arts, or its equivalent, as specified in Ordinance No. 11 (General No. 6.—Regulations for Degrees in Arts); and

B. An Examination in one of the Scottish Universities, to be conducted by the Examiners in Arts, in the following subjects, on the standard of examination for the Ordinary Degree of Master of Arts:—

(1) Logic and Psychology; or, in the option of the candidate, Moral Philosophy.

(2) Latin.

(3) One additional Arts subject, not being one of those which belong also to the Faculty of Law.

And he must have studied at least one of these subjects in a full course in a Scottish University, or an equivalent course in another University approved by the University Court.

II. The course of study in Law necessary for the Degree of Bachelor of Law shall include the following subjects:—

1. Civil Law, during a course of not less than eighty lectures;[1]or a half course in Civil Law where in any University a full course is not available: Provided that in the latter case, candidates who are not already graduates in Arts shall be required to take in addition a course in such subject in Arts as may be sanctioned by the Senatus Academicus, or a half course in one or other of the following branches of Law:—

(*a*) Jurisprudence, General or Comparative.
(*b*) The Law of Nations, or Public International Law.
(*c*) Constitutional Law and History.
(*d*) International Private Law.
(*e*) Mercantile Law.
(*f*) Administrative Law.

2. Law of Scotland, during a course of not less than eighty lectures.

3. Conveyancing, during a course of not less than eighty lectures.

4. Forensic Medicine during a course of not less than forty meetings of the class; or, in the option of the candidate, a half course in one of the branches of Law specified in Sub-section 1 of this section[1]if not already taken.

III. (1) The course of study in Law necessary for the Degree of Bachelor of Law shall extend over two academical years.

(2) No candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

(3) The candidate may prosecute his studies during the prescribed two years in one Scottish University, or in different Scottish Universities, or in a Scottish University and a University or School of Law specially recognised by the University Court; but one at least of these years must have been spent, and all the examinations in the subjects mentioned in the preceding section must have been passed, at the University in which he intends to graduate.

IV. The candidate for the Degree of Bachelor of Law must undergo examination and pass in the four or more subjects selected by him; but he may present himself for examination in one subject or group of subjects at a time, provided that he has completed the course of study for such subject or group of subjects, and provided also that in that case a higher standard of proficiency shall be exacted.

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[1] The remainder of this sub-section does not apply to the University of Glasgow which provides a full course in Civil Law.

V. Every candidate for the Degree of Bachelor of Law shall be examined, both orally and in writing, on each of the subjects in the course of study above prescribed, in which he presents himself for examination.

VI. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Law a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of and Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examinations shall be fixed from time to time by the Senatus Academicus.

VIII. Every student who at the time when this ordinance shall come into operation shall have completed a part of his course with a view to graduation as a Bachelor of Law in any Scottish University under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Law without complying with the provisions of this ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this ordinance.

X. This ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council. [Approved on 28th May, 1894.]

SUBJECTS OF EXAMINATION.

The examinations for LL.B. and B.L. in session 1903-4 will embrace the following books and subjects, viz. : —

In Civil Law.—Institutes of Justinian (Ed. Moyle or Sandars) and the Class Lectures ; also Dig., Lib. XVIII., Tit. I.—translated and annotated by Mackintosh—Roman Law of Sale.

In the Law of Scotland.—In addition to the Class Lectures, the books recommended are Bell's Principles of the Law of Scotland, and Erskine's Principles of the Law of Scotland. In Criminal Law, Macdonald's Criminal Law and Erskine's Principles. Recent editions of the works mentioned should be used.

In Conveyancing.—In addition to the Class Lectures, the books recommended are Duff's Feudal Rights, with Supplement ; Lectures on Conveyancing, by Menzies ; Lectures on Conveyancing, by A. M. Bell ; and Craigie's Statutes.

In Mercantile Law.—In addition to the Class Lectures, the books recommended are Goudy on Bankruptcy, 3rd edition ; Carver on Carriage by Sea, Part I. and Part III.; Thorburn's Bills of Exchange Act, 1882; Bell's Principles, 10th edition, Book I., Chapter 15.

In Jurisprudence, General or Comparative.—Holland's Jurisprudence (any edition after the fourth); Maine's Ancient Law; Miller's Philosophy of Law. Reference may also be made to Hearn's The Aryan Household, Sidgwick's Elements of Politics, Seeley's Introduction to Politics, Pollock's Jurisprudence, and Holmes' The Common Law.

In the Law of Nations, or Public International Law.—Hall's International Law. Candidates are expected to show a general acquaintance with the history of Modern Europe. Pitt Cobbett's Leading Cases, and Tudor's Leading Cases in Mercantile and Maritime Law will be found useful for reference.

NOTE.—Candidates under the old regulations for LL.B. are required to sit also at the papers on Jurisprudence and International Private Law.

In International Private Law.—Rattigan's Private International Law, with the Scots cases referred to in the Class Lectures.

In Constitutional Law and History.—(1) The Outlines of English Constitutional History; (2) Existing Constitutional Law. In addition to the Class Lectures the books recommended are—Taswell-Langmead's English Constitutional History; Dicey's Law of the Constitution; Leading Cases in Constitutional Law, by Thomas.

NOTE.—Candidates for B.L. will only be examined on the half course of lectures they have attended, and on Taswell-Langmead's English Constitutional History.

In Forensic Medicine—Signs of Death with relation to Crime; Proximate Causes of Death; Medico-legal Forms of Death; Identity; Survivorship; Wounds; Blood-stains and their Detection; Insurance; Sexual Crimes:—Rape and Criminal Abortion; Pregnancy in its Medico-legal aspects; Infanticide and Concealment of Pregnancy; Divorce in its Medico-legal relations; Legitimacy and Paternity; Evidence of Poisoning; Poisoning by Antimony, Opium, and Sulphuric Acid; Alcoholism in its Medico-legal aspects; Insanity. (*Text-books*, Principles of Forensic Medicine: Guy and Ferrier; or Manual of Forensic Medicine: Dixon Mann.)

In Political Economy and other Arts Subjects.—The subjects of examination for the Degree of M.A.

No candidate for the Degree of B.L. is admitted to an examination in Law subjects until he has passed in all the subjects of the preliminary examinations, and not fewer than two subjects in Law can be taken up at one examination, except in case of candidates for the Degree of B.L. under the new regulations.

TABLE OF EXAMINATIONS FOR DEGREES IN LAW, TO BE HELD DURING SESSION 1903-4.

Fee.[1]	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.[2]	Subjects of Examination.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.	
			September-October, 1903.	March-April, 1904.
£1 1s. on each entry for Examination, and balance, if any, before Graduation. Total Fees—LL.B. £6 6s., B.L. £5 5s.	16th Sept., 1903, or 8th March, 1904.	Constitutional Law,	Mon., 28th Sep., 9—12 noon.	Mon., 28th March, 9—12 noon.
		Civil Law,	,, ,, ,, 2—5 p.m.	,, ,, ,, 2—5 p.m.
		Scots Law,	Tues., 29th ,, 9—12 noon.	Tues., 29th ,, 9—12 noon.
		Public Internat. Law,	,, ,, ,, 2—5 p.m.	,, ,, ,, 2—5 p.m.
		Jurisprudence,	Wed., 30th ,, 9—12 noon.	Wed., 30th ,, 9—12 noon.
		Internat. Private Law,	,, ,, ,, 2—5 p.m.	,, ,, ,, 2—5 p.m.
		Political Economy,	,, ,, ,, 6—9 p.m.	,, ,, ,, 6—9 p.m.
		Conveyancing,	Thurs., 1st Oct., 9—12 noon.	Thurs., 31st ,, 9—12 noon.
		Forensic Medicine,	,, ,, ,, 2—5 p.m.	,, ,, ,, 2—5 p.m.
		Mercantile Law,	Friday, 2nd ,, 9—12 noon.	Friday, 1st April, 9—12 noon.

For Dates of the Preliminary Examination and of the Examinations in Arts subjects necessary for B.L., see pp. 191 and 214.

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[1] Under the old regulations the fee for LL.B. is £5 5s.; for B.L., £3 3s.

[2] When names are not given in and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be enrolled for examination. A candidate is not held to be enrolled for examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged.

6.—GRADUATION IN DIVINITY.

Degree of Bachelor of Divinity.

In Ordinance No. 63 the Universities Commission laid down the following regulations for this degree :—

I. No one shall be admitted to examination[1] as a candidate for the Degree of Bachelor of Divinity (B.D.) in any University unless he be (1) a graduate in Arts of that University, and have taken a complete Theological Course in a Scottish University or Universities, or in an institution or institutions specially recognised for the purpose of this ordinance by the University Court, or partly in a Scottish University or Universities and partly in such institution or institutions ;[2] or (2) a graduate in Arts of any Scottish University or other University specially recognised as aforesaid, and have completed his Theological Course, of which not less than two years' attendance shall have been given in the University in which he presents himself for examination.

II. The examination shall in all cases be conducted at the seat of the University granting the degree, and the Examiners shall be the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the Senatus Academicus.[1]

III. Every student who at the time when this ordinance shall come into operation shall have completed a part of his Theological Course with a view to graduation as Bachelor of Divinity in any Scottish University, under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Divinity without complying with the provisions of this ordinance.

IV. The Degree of Bachelor of Divinity shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

This degree is conferred on such qualified candidates as have satisfied the Examiners of their proficiency in the following departments, viz. :—

I. Hebrew, New Testament Exegesis, and Apologetics.

II. Divinity, Church History, and Biblical Criticism.

Students who have completed the second year of their Divinity studies, subsequent to the termination of their course in Arts, may present themselves for examination in the First Department. Candidates are not admitted to examination in their Second Department *until they have completed their Theological Course.*

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[1] Ordinance No. 154 gives the Senatus Academicus power to admit candidates to examination in not more than three of the subjects, after the completion of the second session of attendance on their Theological course.

[2] The University Court has recognised *pro tanto* every Theological College in the United Kingdom having a distinct staff of teachers for the separate subjects, in so far as the Theological course is subsequent to the Arts course.

The scheme of examination for session 1903-1904 is as follows :—

I. First Department—

(*a*) *Hebrew.*—(1) Isaiah i.—xx. ; (2) Psalms xc.—cvi. ; (3) Portions of unpointed Hebrew to be punctuated and translated ; (4) Translations from English into Hebrew.

Books which may be consulted :

The Commentaries on Isaiah by Delitzsch, Cheyne, von Orelli, Skinner (Cambridge Bible), and G. A. Smith ; the Commentaries on the Psalms by Delitzsch, Perowne, and Cheyne ; the relative portions of Driver's Introduction (in which full references to Literature will be found) ; Driver's Isaiah, his Life and Times ('Men of the Bible' Series) ; Cheyne's Origin of the Psalter ; Müller's or Davidson's Hebrew Syntax ; Robertson's Hebrew Exercises.

(*b*) *New Testament Exegesis.*—(1) Introduction to the Gospel according to Luke ; (2) Exegesis of Luke ix. 51—xviii. 14, with critical comparison of the parallel passages in Matthew ; (3) Exegesis of the Pastoral Epistles.

Books which may be consulted :

(1) and (2) The relative Commentaries of Godet, Meyer, De Wette, or Alford ; Bleek, Synoptische Erklärung der drei ersten Evangelien ; (3) The Commentaries of Alford or Ellicott.

(*c*) *Apologetics.*—(1) Philosophy of Religion ; (2) Christian Apologetics ; (3) Butler's Analogy.

Books which may be consulted :

(1) As in Max Müller's Introduction to the Science of Religion and Principal Caird's Introduction to the Philosophy of Religion ; (2) as in Dr. Bruce's Apologetics ; (3) Gladstone's Studies Subsidiary to the Works of Bishop Butler.

II. Second Department—

(*a*) *Divinity.*—(1) The Person of Christ ; (2) The Work of Christ ; (3) The Ritschlian Theology.

Books which may be consulted :

The Systematic Theologies of Hodge, Dorner, and Oosterzee ; Dorner's Person of Christ ; Crawford and Dale on the Atonement ; Dr. Orr's The Christian View of God and the World ; Dr. Denney on the Death of Christ ; Ritschl's The Christian Doctrine of Justification and Reconciliation (translated) ; Dr. Garvie's The Ritschlian Theology.

(*b*) *Church History.*—The Ecclesiastical History of England, Scotland, and Ireland in the Sixteenth Century (1500-1600).

Books which may be consulted :

The Histories of Froude, Lingard, Green, Principal Robertson, Tytler, Hill Burton, and Andrew Lang; Dixon, History of the Church of England from the Abolition of the Roman Jurisdiction ; A. J. Mason, Thomas Cranmer ; Bp. Burnet, History of the Reformation ; J. H. Blunt, The Reformation of the Church of England ; Fuller's Church History of Britain ; Collier's Ecclesiastical History of Great Britain ; Creighton, Queen Elizabeth ; the First and Second Prayer-Books of Edward VI. ; Proctor and Frere, History of the Book of Common Prayer ; Knox, History of the Reformation ; "Knox's Liturgy" ; Calderwood's History of the Kirk of Scotland ; Spottiswood, Book of the Universal Kirk of Scotland ; Scottish History from Contemporary Writers—The Days of James IV. and Mary Queen of Scots ; Joseph Robertson, Statuta Ecclesiae Scoticanae ; Grub, Stephen, Cunningham ; M'Crie's Knox and Melville ; Mathieson, Politics and Religion in Scotland ; Bp. Mant, History of the Church of Ireland from the Reformation to the Union (earlier chapters) ; Ball, Reformed Church of Ireland ; Bp. Christopher Wordsworth, Sermons on the Church History of Ireland ; Killen, Ecclesiastical History of Ireland, Vol. I. ; Pullen, Ecclesiastical History of Ireland ; Brennan, Ecclesiastical History of Ireland ; Olden, Church of Ireland (in the "National Churches" Series) ; The Four Masters, "Annals of Ireland" Series.

(c) *Biblical Criticism.*—(1) Textual Criticism. (2) Hermeneutics.

Books which may be consulted :

(1) Davidson, Biblical Criticism ; Tregelles, Treatise in Horne's Introduction, Vol. IV.; Scrivener, Introduction to the Criticism of the New Testament (fourth edition) ; Westcott and Hort, Prolegomena to the Greek Testament ; Nestle, Textual Criticism of the Greek New Testament. (2) Davidson, Sacred Hermeneutics (1843), or Treatise on Interpretation in Horne's Introduction, Vol. II.; Ernesti, Institutio Interpretis ; Immer, Hermeneutik des Neuen Testamentes.

The scheme of examination for session 1904-1905 will be as follows :

I. First Department—

(a) *Hebrew.*—(1) Isaiah xxi.—xxix. ; (2) Psalms cxx.—cl. ; (3) Book of Amos ; (4) Portions of unpointed Hebrew to be punctuated and translated ; (5) Translations from English into Hebrew.

Books which may be consulted :

(1) Commentaries by Delitzsch, Cheyne, von Orelli, Skinner (Cambridge Bible), and G. A. Smith ; Driver's Isaiah, his Life and Times ('Men of the Bible' Series); (2) Commentaries by Delitzsch, Perowne, and Cheyne ; Cheyne's Origin of the Psalter ; (3) Driver's 'Joel and Amos'; G. A. Smith, The Book of the Twelve Prophets ; (4) and (5) Müller's or Davidson's Hebrew Syntax ; Robertson's Hebrew Exercises.

(*b*) *New Testament Exegesis.*—(1) Introduction to the Gospel according to Matthew ; (2) Exegesis of Matthew iv. 17—xvi. 20, with critical comparison of the parallel passages in Luke and Mark ; (3) Exegesis of the Epistle to the Philippians.

Books which may be consulted :

(1) and (2) The relative Commentaries of Meyer, Morison, or Alford ; Bleek, Synoptische Erklärung der drei ersten Evangelien ; (3) The Commentaries of Alford, Ellicott, or Vaughan.

(*c*) *Apologetics.*—(1) Philosophy of Religion ; (2) Christian Apologetics ; (3) Antitheistic Theories.

Books which may be consulted :

(1) As in Kant, Hegel, Max Müller, and Principal Caird ; (2) as in Dr. Bruce's Apologetics and Dr. Orr's Christian View of God and the World ; (3) as in Flint's Antitheistic Theories and Agnosticism.

II. SECOND DEPARTMENT—

(*a*) *Divinity.*—(1) The Doctrine of Man (Anthropology) ; (2) Sin and the Atonement ; (3) The Theology of Schleiermacher.

(*b*) *Church History.*—The Ecclesiastical History of England, Scotland, and Ireland from 1600 to 1662.

(*c*) *Biblical Criticism.*—(1) Textual Criticism ; (2) Hermeneutics.

TABLE OF EXAMINATIONS FOR DEGREES IN DIVINITY, FOR BLACK THEOLOGICAL FELLOWSHIP, FOR FINDLATER SCHOLARSHIP, AND FOR JAMIESON PRIZE, TO BE HELD DURING SESSION 1903-4.

Department.	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.[1]	Fee.	Dates of Written Examinations and Hours at which the different Papers will be set.		
First.	14th October, 1903.	£2 12s. 6d.	Tues., 20th Oct., 1903.	Hebrew, - - -	9—12 noon.
			,, ,,	Hebrew, - - -	2—5 p.m.
			Wed., 21st Oct., 1903.	Apologetics, - -	9—12 noon.
			,, ,,	New Testament Exegesis,	2—5 p.m.
Second.	25th March, 1904.	£2 12s. 6d.	Thurs., 31st Mar., 1904.	Divinity, - - -	9—12 noon.
			,, ,,	Textual Criticism, -	2—5 p.m.
			Frid., 1st April, 1904.	Church History, -	9—12 noon.
			,, ,,	Hermeneutics, - -	2—5 p.m.

[1] Forms of application for examination may be obtained at the Matriculation Office. These forms, when filled up, must be forwarded by the candidates to the Dean of the Faculty of Theology, along with certificates of attendance on the required classes, and, having been certified by him, must then be transmitted to the Assistant-Clerk (Matriculation Office) on or before the date prescribed above. In entering for the Second Department candidates from other schools must produce, in addition to class certificates, evidence that they have completed, or are about to complete, their Theological Course.

7.—HONORARY DEGREES.

The powers of the Senatus Academicus to grant Honorary Degrees are regulated by Ordinance No. 41 of the Universities Commission (1889) of date 13th December, 1893, which received the approval of Her Majesty in Council on 28th May, 1894.

Degree of Doctor of Divinity.

The following are the regulations for the Degree of D.D. :—

I. At the commencement of every session, the Senatus Academicus in each University shall appoint a committee, to be called the Committee on the Degree of Doctor of Divinity, consisting of the Principal, three Professors from the Faculty of Theology (of whom the Professor of Divinity shall be one), and three other Professors to be selected by the Senatus Academicus from the other Faculties.

II. It shall be the duty of this committee to select persons to be recommended to the Senatus Academicus for the degree; but the committee shall not entertain applications from or on behalf of persons desirous of receiving the degree.

III. The committee shall present a reasoned report, embodying its recommendations to the Senatus.

IV. In the case of every person recommended for the degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the Senatus may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz.:—

(*a*) Whether he is an alumnus of this University, and whether he already holds the Degree of B.D., or any other University Degree.

(*b*) Whether he has published a contribution of merit to Theological Literature.

(*c*) Whether his character and professional standing are such as to warrant the conferring of the proposed distinction.

V. No resolution to confer the Degree of Doctor of Divinity shall be moved in the Senatus except upon special notice given after a fortnight has elapsed from the date when the report of the committee shall have been presented.

Degree of Doctor of Laws.

The following are the regulations for the Degree of LL.D.:—

I. At the commencement of every session, the Senatus Academicus in each University shall appoint a committee, to be called the Committee on the Degree of Doctor of Laws, consisting of the Principal and such Professors selected from the various Faculties as the Senatus Academicus may determine, provided that the total number of the committee shall not exceed twelve.

II. It shall be the duty of this committee to select persons to be recommended to the Senatus for the degree, but the committee shall not entertain applications from or on behalf of persons desirous of receiving the degree.

III. The committee shall present to the Senatus a reasoned report embodying its recommendations.

IV. In the case of every person recommended for the degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the Senatus may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz.:—

(*a*) Whether he is an alumnus of this or any other University, and whether he already holds any academical degree.

(*b*) Whether he is the author of any work of acknowledged merit, or has otherwise contributed to the progress of learning and science.

(*c*) And, in general, whether his character, profession, and position in society are such as to warrant the conferring of the proposed distinction.

V. No resolution to confer the Degree of Doctor of Laws shall be moved in the Senatus except upon special notice given after a fortnight has elapsed from the date when the report of the committee shall have been presented.

Academic Dress.

GRADUATES OF THE UNIVERSITY.

On ceremonial occasions the graduates are expected to appear in the Gown and Hood proper to their degrees.

The ordinary Gowns to be worn by graduates of the University of Glasgow are of black silk or stuff, of similar shape to those appropriated to the corresponding degrees in the other British Universities.[1]

The Hoods for the different degrees, as approved by the University Court on 19th May, 1893, are as follows :—

B.A., Black Silk, bordered inside with Red Purple Silk (colour of Bell Heather—*Erica Cinerea*).

M.A., Black Silk, lined with Red Purple Silk.

B.Sc., Black Silk, bordered with Scarlet Cloth and lined with Gold Coloured Silk (colour of Whin Blossom—*Ulex Europæa*).

D.Sc., Scarlet Cloth, lined with Gold Coloured Silk.

B.L., Black Silk, with an inside border of Venetian Red Silk (colour of Clove Carnations).

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[1] The Robemakers to the University have standard patterns of the gowns, which, it may be stated for the information of those at a distance, are of the same shape with the ordinary (or undress) gowns of the corresponding degrees at Cambridge.

LL.B., Black Silk, bordered with Scarlet Cloth and lined with Venetian Red Silk.

LL.D., Scarlet Cloth, lined with Venetian Red Silk.

M.B. and C.M., Black Silk, bordered with Scarlet Cloth and lined with Scarlet Silk.

M.D., Scarlet Cloth, lined with Scarlet Silk.

B.D., Black Silk, bordered with Scarlet Cloth and lined with a light Cherry Silk.

D.D., Scarlet Cloth, lined with White Silk.

Under-Graduates.

By a Statute of the Commissioners appointed by the Act, 1690, chapter XVII., of the Parliament of Scotland, "for the Visitation of Universities and Schools," it was enacted that "all the students in the several Universities and Colleges within this kingdom be obliged to wear gowns during the time of the sitting of the Colleges," and that "the Regents or Masters be obliged to wear black gowns, and the students red gowns; and, in regard that wearing of gowns has never been the custom in the College of Edinburgh, the Commissioners do therefore recommend to the Masters of that College to endeavour to bring the custom of wearing gowns there into practice." It appears from the University records that the wearing of red gowns had been previously the practice in Glasgow, and it continued to be the practice in all the Arts classes which existed at the date of this statute uninterruptedly till recently.

The General Council of this University having requested the University Court to recommend to the Senate the propriety of requiring the students to conform to the ancient practice of this University as to academic dress; and the University Court having remitted the subject to the determination of the Senate, with an expression of regret that the academical dress formerly worn by the Arts students has of late years been laid aside, the Senate has given notice that the proper academic dress for students in Arts is the red gown.

While this notice does not apply to students not in the Faculty of Arts, all students in the University are entitled to wear the red gown.

Ceremony of Graduation.

The following are the regulations adopted by the Senate:—

All degrees honorary or gained by examination, shall be publicly conferred, except in special cases to be decided by the Senate.

Candidates for graduation are required to appear in black gowns with the hoods appropriate to their degrees; those who are already graduates, in the costume proper to their previous degree.

X.—*BURSARIES, SCHOLARSHIPS, Etc., PRIZES.*

N.B.—No alumnus of the University is allowed to hold at one time more than one Bursary, Scholarship, or Fellowship, except in cases provided for by the Regulations.

In the case of Bursaries in the gift of the Senate, in appointing to which "a preference" is to be given to certain names, etc., by a "preference" the Senate understand, in every instance, a preference *cæteris paribus*.

The following is the general ordinance issued by the Universities Commission with regard to Bursaries, Scholarships, and Fellowships, which have taken effect prior to the 30th day of August, 1864 :—

ORDINANCE NO. 57 (GENERAL, NO. 19.—REGULATIONS AS TO BURSARIES, SCHOLARSHIPS, AND FELLOWSHIPS).

GENERAL.

I. For the purposes of this ordinance, bursaries in the Faculty of Arts (hereinafter referred to as bursaries in Arts) shall be deemed to be the bursaries now attached to the said Faculty by Deed of Foundation or by custom.

II. Bursaries in Arts heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after the three years' course, they shall only retain their bursaries during the fourth year of tenure if they shall engage in a course of study approved by the Senatus Academicus in subjects included in the curriculum for Degrees in Arts or in Pure Science.

III. All bursars in Arts, subject to the provision as to the fourth year of tenure contained in the immediately preceding section, shall attend in each year at least two classes qualifying for graduation in Arts, and shall duly perform the work of these classes : Provided (1) that, for the purposes of this section, the classes known as Middle Classes, so long as the same exist, may be attended in place of classes qualifying for graduation ; and (2) that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to permit such bursars as they shall from time to time select to attend classes qualifying for graduation in Pure Science in place of classes qualifying for graduation in Arts.

IV. It shall be in the power of the Senatus Academicus to suspend or deprive a bursar, scholar, or fellow on the ground of misconduct, or, if it think fit, on the ground of his failure to obtain class certificates, or to produce such other evidence as may be required that he is prosecuting his studies in a manner satisfactory to the Senatus Academicus.

V. Bursaries in Divinity heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after the three years' course, they shall only retain their bursaries during the fourth year of tenure if they shall engage in a course of study in Divinity approved by the Senatus Academicus.

VI. In the case of a bursary, scholarship, or fellowship, not in the gift of a patron, becoming vacant by forfeiture or otherwise before the expiry of the period of tenure, it shall be in the power of the Senatus

Academicus, with the approval of the University Court, to determine as to the disposal thereof, or of the income thereof, during the remainder of the said period.

VII. Any bursary tenable in several Faculties successively shall not be attached to any one of such Faculties in any year other than a year in which in ordinary rotation it would have been attached to such Faculty.

VIII. It shall be in the power of the Senatus Academicus to require, as a condition of tenure, any holder of a scholarship or fellowship who is a graduate to engage in teaching within the University or to conduct tutorial classes, unless he shall satisfy the Senatus Academicus that he is pursuing special higher studies, or that he is engaged in original research.

IX. Each Examiner at competitions for bursaries, scholarships, or fellowships shall receive suitable remuneration, and it shall be in the power of the University Court to charge the funds of bursaries, scholarships, or fellowships with the necessary expenses of examination.

Open Bursaries.

X. (1) The subjects of the examination for open bursaries in Arts of the first year shall be the subjects prescribed for the Preliminary Examination in Arts instituted by Ordinance No. 11 (General, No. 6—Regulations for Degrees in Arts), Section III. The examination shall be taken at the Spring or the Autumn Preliminary Examination, according as the University Court shall determine, and shall be upon the same papers: Provided that the Senatus Academicus may, for purposes of competition, subject candidates to any further test that may be deemed necessary.

(2) Candidates for such bursaries who select in the Bursary Competition Examination, Latin, Greek, or Mathematics, shall, for the purposes of the competition, take the papers of the higher standard in those subjects: Provided that nothing herein contained shall prevent a candidate passing the Preliminary Examination if he complies with the provisions of Ordinance No. 11 (General, No. 6.—Regulations for Degrees in Arts), and Ordinance No. 44 (General, No. 16.—Regulations for Degrees in Arts Supplementary to Ordinance No. 11).

(3) No candidate shall, except as hereinafter provided, obtain a bursary in Arts who shall not have passed the Preliminary Examination in Arts: Provided that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to admit to a bursary in Arts a candidate who shall have passed in at least three subjects of the Preliminary Examination, on the condition that he shall not retain the bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as bursar: Provided also that this power shall lapse after the expiry of seven years from the date hereof unless it be renewed by ordinance.

XI. It shall be competent for the Senatus Academicus, with the approval of the University Court, from time to time to make regulations as to the conditions under which persons shall be eligible to compete for bursaries of the first year in the Faculties of Arts and

Science: Provided always that no student, who has during a winter or summer session attended any class qualifying for graduation in the said Faculties in any Scottish University, shall be eligible to compete for such bursaries.

XII. (1) In determining the marks to be assigned to the several subjects of the Bursary Competition Examination, English, Latin, Greek, and Mathematics shall each have assigned to them double the marks assigned to any other subject.

(2) Candidates may select not more than five subjects for examination from the subjects of the Preliminary Examination in Arts, and no candidate shall be credited with marks in any subject in which he has not obtained such proportion of the total number of marks assigned to that subject as the Senatus Academicus may from time to time prescribe.

XIII. The Senatus Academicus, in determining the results of the Bursary Competition Examination, may award bursaries in Arts of the first year in respect of exceptional distinction in any one branch of study: Provided that this power shall not be exercised with regard to more than two bursaries in any one year.

XIV. Bursaries open for competition to students entering on their first session of attendance in the Faculty of Medicine shall be tenable only by those students who have passed the Preliminary Examination in Medicine, or who have been exempted therefrom in accordance with the provisions of Section VI. of Ordinance No. 46 (St. Andrews, No. 4. —Regulations for Degrees in Medicine), Ordinance No. 14 (Glasgow, No. 1.—Regulations for Degrees in Medicine), Ordinance No. 15 (Aberdeen, No. 1.—Regulations for Degrees in Medicine), or Ordinance No. 16 (Edinburgh, No. 1.—Regulations for Degrees in Medicine), and who have not attended any class qualifying for graduation in Medicine: Provided always that the last-mentioned condition shall not be held to exclude a candidate who may have attended the class of Physics, Chemistry, Botany, or Zoology, otherwise than as part of a graduation course in Medicine.

Restricted and Preferential Bursaries.

XV. Candidates for bursaries in Arts which are not awarded by open competition shall present themselves for the Preliminary Examination in Arts prescribed by Ordinance No. 11 (General, No. 6.—Regulations for Degrees in Arts), Section III., and no bursary shall, except as hereinafter provided, be awarded to any candidate who shall not have passed the Preliminary Examination in Arts: Provided that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to admit to a bursary in Arts not awarded by open competition a candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as bursar.

XVI. In the case of a bursary, scholarship, or fellowship in the gift of a patron, including bodies corporate and not corporate, becoming vacant by forfeiture or otherwise during the period of tenure, the Senatus Academicus shall forthwith give notice of the vacancy to the patron, who may, within such time as the Senatus shall fix, appoint a qualified student to fill the vacancy ; and if he fail to do so within such time, the Senatus Academicus may select a deserving student to fill the vacancy until the next Preliminary Examination at which bursaries are awarded, when the patron's right to present shall revive.

XVII. On the occurrence of a vacancy in any bursary in the gift of a patron, including bodies corporate and not corporate, at the expiry of the period of tenure, the Senatus Academicus shall give notice of such vacancy to the patron of the bursary and of the date fixed for the Preliminary Examination next ensuing at which bursaries are awarded; and the patron may, if he think fit, submit to the Senatus the names of two or more candidates eligible for such bursary, who shall undergo an examination to be conducted by the Examiners for open bursaries in the University, and the result of the examination shall be communicated to the patron for his information, who shall thereafter present to the bursary.

XVIII. In the case of a bursary in the gift of a patron, including bodies corporate and not corporate, if no qualified person be presented before the date of the Preliminary Examination intimated in terms of the immediately preceding section, the bursary shall be open to unrestricted competition for that year ; and in the event of no qualified person being presented as before provided at the beginning of the next academical year, the Senatus may either throw open the bursary to unrestricted competition, or continue the same to the student to whom it had previously been awarded : Provided that this section shall not apply in cases where the patron shall previously satisfy the Senatus Academicus that proper arrangements have been made for the selection of a bursar.

MISCELLANEOUS.

XIX. In the case of bursaries designed for poor students, the Senatus Academicus shall satisfy itself that the circumstances of candidates are such as to entitle them to the benefit of the endowment, and for this purpose the Senatus may require that a declaration be made by a parent or guardian, or by the minister of religion or schoolmaster, of each candidate as the Court shall think fit.

XX. [Preferences and restrictions cancelled. These have been noted under each bursary concerned.]

XXI. Nothing herein contained shall apply to any bursary or endowment granted by any incorporation or society whose funds, capital or revenue, have been and are contributed and paid by the members of such incorporation or society by way of entry monies or other fixed or stated contributions.

XXII. The Senatus Academicus, with the approval of the University Court, shall prescribe the subjects of examination and the conditions of competition for bursaries, scholarships, or fellowships, in so far as the same are not prescribed by ordinance or by deed of foundation.

XXIII. The provisions of any Ordinance of the Commissioners undei the Universities (Scotland) Act, 1858, in so far as inconsistent with the provisions of this ordinance, are hereby repealed.

XXIV. This ordinance shall come into force from and after the 1st day of January, 1895, or as soon thereafter as it may be approved by Her Majesty in Council: Provided that nothing herein contained shall extend to, or affect the interests of, any person holding a bursary, scholarship, or fellowship at the date of its coming into effect. [Issued on 30th July, 1894; approved on 11th May, 1895.]

Bursaries for Women.

On 10th March, 1898, the University Court, in virtue of the power conferred by Ordinance No. 58, Section I., resolved to appropriate to competition, without restriction as to sex, all the open bursaries tenable in Arts, Science, or Medicine, which have taken effect prior to 30th August, 1864. To a number of other Bursaries either men or women may be appointed. In the following lists of Bursaries arranged according to Faculties, *italics* are used in printing the names of those Bursaries for which both men and women are eligible.

A.—BURSARIES ARRANGED ACCORDING TO FACULTIES.

BURSARIES IN THE FACULTY OF THEOLOGY.

Bursars in the Faculty of Theology are required to attend each session the Divinity Class and any two of the three classes of Hebrew, Church History, and Biblical Criticism.

Foundation.	No. of Bursaries.	Period of Tenure. Years.	Approximate Annual Value of each.
Adam, John,	3	4	£17
Black,	2	3	£36
Boyd and Sanders,	1	3	£13 16/8
Boyd and Wilson,	1	3	£24 6/8
Brown or Ettles,	2	3	£25
Dundonald,	6	3	£41 2/6
Gilhagie and Struthers,	1	3	£19 12/8
Hamilton,	3	3	£25
Hastie,	2	3	£25
Logan,	1	3	£17
Lorimer,	4	3	£25 and £19
Lumsden,	1	4	£15
Macfarlane, James,	1	3	£23
Marshall,	1	4	£15
Morgan,	8	1	£20
Muir,	1	3	£32
Muir Divinity,	2	2	£25
Notman,	1	3	£18
Ross, John, jun.,	1	3	£30
King William's,	2	3	£20
BURSARIES IN THE FACULTY OF LAW.			
Macfarlane, Robert,	—	—	—
Merchants' House,	1	3	£25
Walkinshaw-Young,	1	2	£16
Major Young's Fund,	2	6 and 2	£22

BURSARIES IN THE FACULTY OF MEDICINE.

Foundation.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Arthur,[1]	1	3	£20
Brisbane,	1	4	£42
Buchanan Society,[2]	2	4 or 5	£35
Davidson,	1	3	£26
Gardiner,[2]	1	2	£13 10/
Gibson, Dr. Thomas,[2]	1	4	£32
Glasgow Highland Society,	7	4	£25
Logan,[2]	1	4	£17
Lorimer,	4	3	£25 and £19
Macarthur,	1	2	£20
Macfarlane, John,	1	3	£40
Mackintosh,[2]	1	1	£31
Marshall,	1	4	£15
Merchants' House,	2	4	£25
Monteith, John,	2	2	£21
Paterson, James A.,	8	4	£35 and £25
Rainy,	2	2	£20
Walton,	1	4	£34
Weir, Andrew,	1	1	£15

BURSARIES IN THE FACULTY OF SCIENCE.

Foundation.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
Agricultural College,	6	3	£50 and £40
Buchanan Society,[2]	1	4	£30
Cuthbertson, Donald,	1	3	£32
Elder,	2	2	£50
Kerr, Malcolm,	2	3	£20
M'Ewen, Malcolm (Arts or Science).	1	4	£16
Metcalfe,	4	2	£25
Muir (Civil Engineering),	2	1	£12 10/
Pender Memorial,	1	1	£50
Shipwrights' Company,	1	3	£50
Strang,	4	3	£20
Young, George,	1	1	£35

BURSARIES IN THE FACULTY OF ARTS.

Bursars in the Faculty of Arts are required to attend at least two classes each session.

Foundation.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
Adam, James,	2	4	£11
Adamson,	1	3 or 4	£20
Barbour (Kilbarchan),	1	3	£20
Biggart Memorial,	10	4	£25
Black,	2	4	£18
Blackquarry School,	1	4	£12
Brand,	3	4	£24
Brown, Ebenezer,	1	3	£40
Browne (Ayrshire),	2	4	£22
Brown-Paton,	2	3	£16
Buchanan,[2]	2	3	£13
Buchanan Society,[2]	3	3	£20
Clark, John (Mile-end),[2]	24	4	£30

[1] Open to women students only.

[2] Both men and women are eligible.

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

Foundation.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Cowan,	1	3	£26 13/4
Craig,	1	4	£25
Craig, Archibald,	1	2	£9
Crawfurd and Brown,[1]	1	4	£19 13/4
Davidson,	1	3	£26
Duncan's Bute,	2	4	£32
Dundonald,	8	4	£40
Ewing, James,	4	4	£20
Forfar,[1]	5	4	£36
Forrester,[1]	1	3	£24
Foundation,[1]	2	4	£20
Franco-Scottish Society,[1]	4	1	£30
Fullarton of Overton,	5	2	£22
Gardiner,[1]	1	2	£13 10/
Gartmore,[1]	1	3	£21
General Council,[1]	4	3 or 2	£20
Glasgow City Educational Endowm'ts,[1]	20	4 or 2	£25
Grant, George,	1	3 or 4	£38
Grant, George, jun.,[1]	1	4	£38
Hamilton,	3	3	£20
Hamilton Educational Trust,	3	3	£15
Hannay,	3	3	£15
Hastie,[1]	1	4	£25
Highland Society, Glasgow,	12	4	£20
Howison and Gilchrist,	1	4	£17
Hutchesons' Educational Trust,	20	4	£20
Hyndford and Ross,	1	4	£10 16/8
Jaffrey, John Ferguson,	1	2	£34
Kerr, Malcolm (Nat. Phil.),	1	3	£20
Laing, Alexander,	1	3	£20
Laing, James,[1]	8	4	£25
Lanfine,[1]	6	2	£25
Leadbetter,	1	4	£9
Leyden, John,	1	3	£13
Lochhead, James,	1	3	£16
Lochhead and Mitchell,	2	4	£33
Lorimer (Phil.),	4	3	£25 and £19
Lorimer (Math.),[1]	4	3	£25 and £19
Lusk,	1	3	£30
M'Crie,	4	4	£25
M'Culloch,	1	4	£17
MacDougall,	3	3	£33
M'Ewen, Malcolm (Arts or Science),	1	4	£16
MacGrouther,	2	4	£20 and £15
M'Kissack,	1	4	£20
Maclean Trust (Arts),	4	4	£25
Maitland Club,	1	—	—
Marshall Trust,[1]	20	5	£30
Menzies,	4	4	£45
Merchants' House,	1	4	£25

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[1] Both men and women are eligible.

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Monteith,	3	3	£14
Morgan,	16	1	£20
Muir (Mathematics, Senior),	1	1	£18
Muir (Mathematics, Junior),	1	2	£9
Paterson, James,	1	4	£20
Paterson, James A.,	7	3	£35, £25, and £20
Patrick,	3	4	£32
Perthshire Society,	1	3	£25
Pollock,	3	3	£40
Ramsay-Walker,	2	4	£12
Scott (Sir Walter),	3	4	£25
Stevenson of Dalry,	2	4	£32
Stewart,[1]	3	4	£15
Thomson, James (Philosophical),	1	2	£9
King William's,[1]	2	3	£15
BURSARIES IN THE FACULTIES OF ARTS AND THEOLOGY.			
Ardkinglass,	1	6	£9 10/
Buchanan (Bellfield),	2	7	£47
Leighton,	1	3	£18
Williams,	4	3 or 4	£40
BURSARY IN THE FACULTIES OF ARTS OR THEOLOGY.			
Lamb,[1]	1	—	£12
BURSARIES IN THE FACULTIES OF ARTS, LAW, OR MEDICINE.			
Macdonald,	2	4	£15
William Whyte,	4	4	£25
BURSARIES IN THE FACULTIES OF THEOLOGY, LAW, OR MEDICINE.			
Armagh,[1]	3	3	£45
Bell,	—	—	£50
Hutcheson, Thomas,	1	4	£11 2/2¾
BURSARIES IN ANY FACULTY.			
Ayrshire Society,	4	3	£15
Celtic Society (Campbell),	1	1 or more	£5
Denny,	4	4	£30
Dumfriesshire Society,[1]	2	4	£15
Ferguson, James,	2	2	£85
Forrest,	5	5 or less	£22
Gibson, John,	2	3	£20
Kintyre (Ker),	1	3	£20
Kintyre (Alexander Love),	1	4	£11
M'Kechnie,	2	4	£35
Pratt,[1]	2	4	£20
Shearer,	3	3	£30
Smith,	1	4	£18
Stillie,	1	1	£5
Taylor,[1]	2	4	£7

[1] Both men and women are eligible.

B.—BURSARIES (ALPHABETICALLY ARRANGED).

James Adam Bursaries (*Arts*).—These bursaries were founded by the Rev. James Adam, Minister of Cumbrae, who died in 1830, and were originally three in number. In appointing to one of the bursaries, preference was given to the kindred of the founder, and in appointing to another to students of the name of Adam. By Ordinance No. 80 of the Universities Commission (1889) these restrictions were removed, and the three bursaries were combined into two of equal value. The bursaries are tenable for four years, but if a bursar graduate at the end of three years he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to these bursaries. The appointment is vested in the Earl of Glasgow, the Professor of Divinity, and the Minister of Cumbrae, the exercise of their patronage being regulated by Ordinance No. 57, Sections xv.—xviii. Value, about £11 per annum each.

Bursars—Arthur A. Cowan, 1900 ; Donald C. B. Gordon, 1901.

John Adam Bursaries (*Theology*).—Three in number, founded by Mr. John Adam, of the Inner Temple, who died in 1836. The founder gave a preference to his own kindred and to students of the name of Adam or Dollar. By Ordinance No. 57 of the Universities Commission (1889) this preference was cancelled. They are open to competition to students in Theology of the first year ; and, after examination, are adjudged to the three students who shall be declared to be the most deserving, and to have made the highest attainments in Latin, Greek, Logic, Moral and Natural Philosophy, and Mathematics. The trustees and patrons are the Principal, the Professor of Theology, and the five Professors of the Gown Classes. These Bursaries are tenable for four years, subject to the provisions of Ordinance 57, Section v. Value, £17 to each bursar.

Bursars—Hector MacLean, 1901 ; Neil M'Lellan, 1901 ; Walter Shaw, 1901.

Adamson Bursary (*Arts*).—This Bursary was founded by the Rev. David Adamson, minister of Fintry, in 1674, for a student in Philosophy, and was restricted to sons of freemen in one of the seven Incorporate Trades of Stirling. This restriction was removed by Ordinance No. 57 of the Universities Commission (1889). The Bursary is tenable for four years by a student entering the Greek Class, for three years by a student entering the Logic Class ; and the appointment is vested in the Convener Court of Stirling. Value, the free proceeds of the capital, which now amounts to about £500.

Agricultural College Bursaries (*Science*).—The Governors of the West of Scotland Agricultural College have instituted a scheme of Bursaries, of the value of £50 and £40 respectively, each tenable for three years. They are awarded on the results of the Science Preliminary Examination held in Autumn. Bursars must attend the curriculum of classes in Glasgow, and comply with the conditions required to qualify for the degree of B.Sc. in Agriculture of the University of Glasgow, and must further present themselves at the examinations for the National Diploma in Agriculture. Further particulars may be ascertained by applying to Principal Wright, 6 Blythswood Square, who will receive applications up to 1st September. (Two vacancies.)

Bursars.—[1]Alexander B. Lamont, 1900; John Struthers, M.A. (£50), 1901 ; Robert D. Watt (£40), 1901 ; William Stevenson (£50), 1902 ; Neil Leitch (£40), 1902.

Ardkinglass Bursary (*Arts and Theology*).—This Bursary was founded in 1733, by Sir James and Lady Campbell, out of a fund which Colonel John Blackader of Barndennoch, Glencairn, Dumfriesshire, had by his Will set aside for pious uses, and was tenable for eight years—five in Languages and Philosophy, and three in Divinity. It is now regulated by Ordinance No. 87 of the Universities Commission (1889). A bursar may hold the Ardkinglass Bursary for three years in the Faculty of Arts, and for three years in the Faculty of Divinity, and no longer ; but a bursar, who at the end of the third year of his tenure has failed to pass all the examinations necessary for graduation in Arts, shall forfeit the Bursary, and in that event it shall be lawful for the patron to nominate a candidate, who shall be a Master of Arts, or shall have passed the examinations necessary for admitting him to that Degree, and shall be entering on his course of study in the Faculty of Divinity ; failing such nomination by the patron, the Bursary shall be awarded by the Senate to a candidate qualified as aforesaid, under such conditions as the Senate shall prescribe, but a Bursar thus nominated shall not hold the Bursary for more than three years. In other respects the provisions of Ordinance No. 57 apply to the Ardkinglass Bursary. Patron, Mr. Geo. F. W. Callander of Ardkinglass and Craigforth. Value, £9 10s. (Vacant, and to be held in the Faculty of Divinity.)

Armagh Bursaries (*Theology, Law, or Medicine*).—Three in number, founded in 1733 by Hugh Boulter, Archbishop of Armagh, who endowed the College with the annual rent of certain lands in the neighbourhood of Glasgow. By ordinance of the Universities Commission (1858) these three Bursaries were raised from £15 to £25 per annum each (the funds having accumulated through vacancies), and the restrictions as to birthplace were removed.

Further regulations were laid down in Ordinance No. 92 of the

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[1] Vacant through lapse of time.

Universities Commission (1889). The Bursaries are open by competition to students who are presenting themselves for the final examination for the Degree of Master of Arts with Honours in the following rotation: (1) Classics, (2) Mental Philosophy, (3) Mathematics and Natural Philosophy. They are tenable for three years, during which the holders must give regular attendance on the classes of this University, as students of Theology, Law, or Medicine. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this Foundation. One Bursary (value about £45) will be open to competition in October, the subject of examination being Mental Philosophy.

Bursars—[1] Peter G. Smith (Mental Philosophy), 1900; John Gordon (Classics), 1902.

Arthur Bursary or Scholarship (*Medicine*).—Founded in 1892 by Mrs. Arthur of Barshaw. This Bursary is at present of the annual value of £20. It is open to women students in the Medical School at Queen Margaret College. It is to be awarded by the Trustees to the student who shall take the highest place among the Queen Margaret College candidates at the First Professional Examination held in the University before the commencement of the winter session in which an appointment falls to be made, provided always that a candidate may take part of her examination in the March or April preceding. If two students are of equal merit, the Bursary will be divided between them, and if more than two are equal, a special examination may be held to determine who shall be the recipient. The Bursary is tenable for three years, subject to the condition that the Bursar prosecute her medical studies with the approval of the Trustees.

Bursar or Scholar—Elizabeth M. M'Vail, 1901.

Glasgow Ayrshire Society's Bursaries (*Any Faculty*).—Four in number, founded in 1868 and 1879 by the Glasgow Ayrshire Society, and consisting of the free annual proceeds of a sum of £1,501 11s. subscribed by members of the Society, to be devoted to the establishment of bursaries in the University of Glasgow, and invested for that purpose. The bursaries, which are at present £15 per annum each, are tenable for not more than three years, and are open to applicants between the ages of 14 and 24, who are descendants of members of the Society, or natives of Ayrshire, or sons of natives resident in Glasgow, who are in circumstances rendering the aid of a bursary necessary or desirable. Patrons—the Directors and Office-bearers of the Society. Secretary, Mr. Alexander M'Lennan, 92 St. Vincent Street, Glasgow. (Three vacancies.)

Bursar—James Dunbar, 1902.

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[1] Vacant through lapse of time.

Barbour Kilbarchan Bursary (*Arts*).—Founded in 1887 by the Executors of Miss Mary Barbour of Plymouth Grove, Manchester, who bequeathed £500 free of legacy duty for the purpose of endowing a scholarship for the Board School of Kilbarchan, Renfrewshire. The bursary is open to students of the first year, and is tenable for three years. Candidates must not exceed the age of eighteen years, must produce a certificate from the Kilbarchan School Board that they have attended three years at the Kilbarchan Village or Town Board School, are of irreproachable character, and have given satisfactory evidence of good natural ability, diligence and proficiency in their studies, and must be examined at the ordinary Bursary Examination. (Vacant.)

Bell Bursaries.—Mrs. Mary Allan Bell, of Nether Culzean, Maybole, who died on 7th February, 1899, at Glenae, Dumfries, in her Trust Disposition and Settlement of date 21st October, 1895, directed her Trustees, after the death of her husband, to apply the income of the residue of her estate in perpetuity in providing bursaries of £50 each for necessitous deserving students of Medicine, Law, or Theology in this University. Only those who have gone through the Arts curriculum are to be eligible, with a preference, *cæteris paribus*, first to the name Turnbull, and next to the name Macdowall. The Bursaries are to be awarded by competition, the examination being conducted both orally and in writing by two examiners appointed by the Trustees. Each Bursary is to be tenable for three or four years, as the Trustees may decide.

Biggart Memorial Bursaries (*Arts*).—Founded in 1876 by Mr. Thomas Biggart of Baidlandhill, Dalry, Ayrshire, in memory of his son, Thomas Biggart, an alumnus of Glasgow University, who died in 1874. The bursaries are open to competition at the annual Bursary and Preliminary Examination to students who are entering on the Arts Course at the University of Glasgow, with a view to the ministry of the United Free Church, and are designed to enable such students more easily to pursue that curriculum and obtain, as far as practicable, the Degree of Master of Arts.

The bursaries are tenable for four years, and the yearly value of each is £25. The Bursary Fund consisted of the sum of £6,000, and the deed of foundation provided that the surplus revenue, if any, may be applied to prolong the tenure of any of the bursars for a fifth year, or to the granting of additional bursaries on the same conditions as are applicable to the others.

Each bursary is payable by equal moieties on the second day of February and at the close of the winter session; and the bursar, on applying to the Principal for a precept for the second moiety, is required in each year to produce, besides the usual certificate from the Professors, a certificate signed by the Chairman and Clerk of the Theological Committee of the United Free Assembly, to the effect of his being recognised by that Church as an accepted student, pursuing his studies with a view to the ministry therein. (Two Vacancies.)

Bursars—[1] John Whitelaw, 1899; John Baillie, 1900; George J. Jeffrey, 1900; John M. Hunter, 1901; William I. H. Marr, 1901; William M'Kelvie, 1902; Robert W. Murchie, 1902; Ian D. Neilson, 1902.

Black Bursaries (*Arts*).—Founded by Mrs. Janet Black, widow of the Rev. William Black, D.D., Minister of the Barony Parish, Glasgow. Mrs. Black died in 1876, and by her Settlement, made provision, *inter alia*, for the institution of two bursaries in Arts, each of which is now of the annual value of £18. The bursaries are open to competition to students entering on their first session in the University, and are awarded to students who, having passed the Arts Preliminary, have gained the highest marks in Mathematics in the Bursary Examination, and have not obtained a bursary in the general competition. The bursars are required to attend the qualifying courses for a degree in Arts.

Bursars—James E. Scott, 1900; William G. Waddell, 1902.

Black Bursaries (*Theology*).—Founded by Mrs. Janet Black—who died in 1876—in memory of her husband, William Black, D.D., Minister of the Barony Parish of Glasgow. The bursaries are entrance bursaries, two in number, each of the annual value of £36, tenable for three years. The competition is open to candidates holding a degree in Arts in any Scottish University, or who have passed their examinations in any four subjects taken from at least two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland.

Bursars—[1] Norman R. Mitchell, M.A., 1900; John R. Spence, M.A., 1902.

Blackquarry School Bursary (*Arts*).—Founded in 1876 by the Trustees of the Blackquarry School, Port-Dundas, Glasgow. The Police Board of Glasgow having acquired the school compulsorily under "The Glasgow Police Acts," the Trustees resolved to apply the proceeds, after payment of all claims upon the institution, in founding a Bursary in the University of Glasgow. The Bursary is open to competition to Students in the Faculty of Arts on their first entering the University, under the same regulations as those of the competition Bursaries in the University, and is tenable for four years, subject to the condition that the Bursar shall attend the qualifying course for the Degree of M.A. Value, the annual income of a sum of £420 (about £12).

Bursar—John F. Tinto, 1901.

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[1] Vacant through lapse of time.

Boyd and Sanders Bursary (*Theology*).—In 1635, Mr. Zachary Boyd founded three Bursaries for students in Divinity, tenable for two or four years, each of the value of £5 10s. per annum. The appointment to one of these was vested in the Merchants' House of Glasgow ; and the patrons of the other two were the members of the City Council. Preference to burgesses' sons, particularly of the name of Boyd.

The Bursary, value £5 10s., in the gift of the Merchants' House of Glasgow, and the Sanders Bursary, value £8 6s. 8d., founded in 1728 by Mr. Robert Sanders of Auldhouse, also in the gift of the Merchants' House, were, by an order obtained under the authority of the Endowed Institutions Commission in 1880, conjoined into one Bursary of £13 16s. 8d. per annum, tenable for not more than three years by a student attending the ordinary curriculum in the Faculty of Theology at the University of Glasgow. The preference, *cæteris paribus*, to the names Boyd, Sanders, Corbet, Colquhoun, and Wardrop, was cancelled by Ordinance No. 57 of the Universities Commission (1889). When a vacancy occurs applications are to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st September. (Vacant.)

Boyd and Wilson Bursary (*Theology*).—By ordinance of the Universities Commissioners of date 17th May, 1862, the two Boyd Bursaries in the gift of the Magistrates and Town Council of Glasgow (see above) were conjoined into one, tenable for three years, the Bursar to be M.A. By an ordinance of the same date the two Bursaries, value £6 13s. 4d. per annum each, which were founded by Mr. Michael Wilson in 1640, and placed under the same patronage, were also conjoined into one, tenable for three years, the holder to be M.A. in regular attendance at the University as a student of Theology. Restrictions as to kindred, etc., were in both cases abolished.

This Boyd Bursary and this Wilson Bursary were, by Ordinance No. 78 of the Universities Commission (1889), conjoined into one Bursary, called the Boyd and Wilson Bursary, value £24 6s. 8d. per annum. The holder must be a Master of Arts of a Scottish University. The Bursary is tenable for three years, provided that the Bursar shall, during that period, give regular attendance as a student of Theology in Glasgow University. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

Bursar—John M. Hamilton, M.A., 1902.

Brand Bursaries (*Arts*).—Mr. Robert Brand, son of the late Mr. Robert Brand, coalmaster, Wishaw, by his Trust Disposition and Settlement, dated 28th June, 1873, directed his Trustees to pay to the Senatus of the University of Glasgow the sum of £2,000, the income of said sum to be applied in payment of three Bursaries in Arts for the behoof of students in the University who shall be studying with a view to the ministry of the United Free Church. Mr. Brand died on 3rd July, 1873, but, in consequence of litigation, it was not till January, 1875, that the bequest, amounting, with interest, to the sum of £2,121 7s. 5d., was paid by the Trustees to the Senate. The Bursaries, which are tenable for four years, are of the annual value of about £24 each, and are awarded by public competition to students entering their first or second session in the Faculty of Arts; the Bursars to graduate as M.A. at the end of their course.

Bursars—Robert Inglis, 1901; [1] Alexander R. Mackenzie, 1901; William King, 1902.

Brisbane Bursary (*Medicine*).—Founded by Miss Christian Brisbane in 1777, in fulfilment of the intentions of her brother, Dr. John Brisbane of Balbegno. Their father, Dr. Thomas Brisbane, was the first Professor of Anatomy in this University.

It is tenable by a student of Medicine for four years, and the salary is about £42 per annum. The family of Brisbane and the University present alternately. The applicant must be under twenty-two years of age, and must have the Degree of M.A.

The preference formerly given to the kin of the founder was cancelled by Ordinance No. 57 of the Universities Commission (1889).

Bursar—Robert B. Carslaw, M.A., 1900.

Brown Bursary.—See Crawfurd and Brown, p. 284.

Brown or Ettles Bursaries (*Theology*).—Two in number, founded in 1867 by Miss Ettles of Inverness, in memory of her brother-in-law, Dr. E. Brown, an alumnus of this University. The Bursaries consist of the annual interest and proceeds of a sum of £1,000, and are open to competition to first year's students of Divinity who have passed all the examinations required for the ordinary Degree of M.A.; with a preference, *cæteris paribus*, to such as can speak Gaelic. The Bursaries are tenable for three years.

Bursars—John M. Hamilton, M.A., 1902; James Bain, M.A., 1902.

Ebenezer Brown Bursary (*Arts*).—Founded in 1884 under the Trust Disposition and Settlement of Mr. Ebenezer Brown, export bottler, West Campbell Street, Glasgow. Mr. Brown, who died on 31st July, 1883, bequeathed to the Senate the sum of £1,000, free of legacy duty, for the purpose of founding and maintaining a bursary in the Faculty of Arts, to be granted to the student who shall stand highest in a competitive examination on such subject or subjects in Arts as the Senate may prescribe. The Senate have full power to vary such subject or subjects from year to year, and to lay down such regulations regarding the bursary as they may see fit. The bursary is open to competition to all students entering on their first or second year of attendance, provided that no student in his second year shall be eligible who on entering upon his first year of attendance passed the whole Preliminary Examination. It is tenable for three years. Present value, £40 per annum.

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[1] Vacant through resignation of Bursar.

Bursar—Thomas M. M'Robert, 1901.

Browne (Ayrshire) Bursaries (*Arts*).—Two in number, tenable for four years, and each of the annual value of about £22, founded in 1871 by Mr. Hugh Browne, residing at Darvel, in the county of Ayr, who for this purpose, and in memory of his brother, the late Dr. Alexander Browne of Buenos Ayres, mortified to the University of Glasgow the sum of £1,000. The bursaries are awarded by competition. Candidates must be natives of the county of Ayr, or must have been educated for not less than four years in a school within the said county, and must be entering on their first session at the University.

Bursars—Archibald H. Dunlop, 1900; David T. Leggat, 1902.

Brown-Paton Bursaries (*Arts*).—Founded in 1891 by Mr. Andrew Brown-Paton, Liverpool, in memory of his father, mother, and three sisters. The bursaries are two in number, and are tenable for three years. They are open for competition to students of the first year, with a preference to natives of the parishes of Loudon or Galston in Ayrshire. Should no candidate from either of these parishes come up to the standard of the Entrance Examination then held in Arts, the bursaries are open to candidates from any part of Ayrshire. Failing qualified candidates from Ayrshire, the bursaries are open to all students of the first year. In case of a vacancy, otherwise than by lapse of time, a student of the same standing is appointed by the Senate by examination or otherwise. Each bursar receives one half of the free proceeds of the capital sum, £1,000, paid over to the University Court by the founder. (Both vacant.)

Buchanan Bursaries (*Arts*).—Founded by the late Robert Buchanan, LL.D., Ardfillayne, Dunoon, formerly Professor of Logic and Rhetoric in the University of Glasgow, by Codicils to his Will, dated 26th December, 1871, and 26th March, 1872, in which, as a "token or expression of his gratitude and respect to the University of Glasgow, with which, as a student, or Professor, or member of the University Court, he had been connected for the space of fifty years," he bequeathed the sum of £1,000 for the purpose of founding a Bursary or Bursaries for students in the Faculty of Arts, on the conditions that may appear to the Senatus best for the interests of the University. The Senate resolved to apply the annual proceeds to the support of two Bursars in Arts, each to hold his Bursary for three years, subject to the usual condition of attending two of the classes of the curriculum in each session; the Bursars to be appointed by competitive examination among students of either sex of the first year. The Bursaries are awarded to competitors who, having passed the Arts Preliminary, have gained the highest marks in Dynamics in the Bursary examination, and have not obtained a bursary of greater value in the general competition. Present value, £13 to each Bursar.

Bursars—Neil Conley, 1901; James C. Burton, 1902.

BUCHANAN (BELLFIELD) BURSARIES (*Arts and Theology*).—Founded in 1875, in accordance with the Trust Disposition and Deed of Settlement of the late Misses Margaret Jane and Elizabeth Buchanan of Bellfield, Glasgow. The Bursaries are two in number, and consist of the yearly proceeds of a sum of £4,200, vested in Reduced 3 per cent. Annuities. Open to matriculated students who may be prosecuting their studies at the University of Glasgow, with a view to their becoming licentiates and clergymen of the Established Church of Scotland. The Patrons are the Principal and such of the Professors as hold their appointments from the University Court. The Bursaries are tenable during the whole curriculum "or such portion thereof as to the said Principal and Professors may seem proper." The Bursars are appointed by competitive examination among students of the first and second years in Arts. Present value, £47 per annum to each Bursar.

Bursars—[1] Brodie S. Gilfillan, 1896; James G. MacDonald, 1897.

BUCHANAN SOCIETY BURSARIES (*Arts or Science or Medicine*).—The Buchanan Society, which was founded in 1725, has instituted for young men and women of the names of Buchanan, M'Millan, M'Auslan, M'Wattie, and Risk, who have not previously attended any University, and who are not over twenty-one years of age, a number of Bursaries in Arts or Science or Medicine. The Bursaries in Arts are each of the annual value of £20, and tenable for three years at any Scottish University. The Bursaries in Science are each of the annual value of £30, and tenable for four years at any Scottish University, or at any of the Technical Colleges of Glasgow, Edinburgh, Dundee, or Aberdeen, approved of by the Society. Holders are required to go up for the Degree of B.Sc. at the University during their tenure of the Bursaries in Science. The Bursaries in Medicine are each of the annual value of £35, and tenable for four years, but may be extended to a fifth year. Holders are required to attend the classes which qualify for graduation with a view to taking a medical Degree at any Scottish University. All the Bursaries are awarded by competition, the subjects of examination being English and any three selected by the candidate out of the following, viz., Latin, Greek, French, German, Mathematics, Science. Candidates for Bursaries in Science must also shew proficiency in Freehand Drawing. When vacancies occur applications should be lodged not later than 15th August with the Secretary, Mr. P. G. Keyden, 186 West George Street, Glasgow, from whom further information may be obtained. (No vacancies in 1903-4.)

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[1] Vacant through lapse of time.

Bursars—John Macmillan (Medical, 5 years), 1900; Murdo Buchanan (Medical, 5 years), 1900; Andrew Buchanan (Science, 4 years), 1901.

CELTIC SOCIETY'S CAMPBELL BURSARY (*Any Faculty*).—Founded in 1869 by the Glasgow Celtic Society. Value, at least £5. Tenable for one or more years by a native, or a son of a native, of the Highlands of Scotland, not under 14 nor above 20 years of age, whose circumstances are such as to render aid important. A preference, *cæteris paribus*, to Gaelic-speaking students. Additional Bursaries not exceeding £5 are also granted by the Society, when its funds permit, to Gaelic-speaking students. Applications to be made to the Honorary Secretary, Mr. T. A. H. Anderson, 170 Hope Street, Glasgow, on or before 1st October in each year. Application forms may be obtained from Mr. Anderson.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS (*Arts, etc.*).—(See under "Scholarships.")

JOHN CLARK (MILE-END) BURSARIES (*Arts*).—Founded in 1868, in accordance with the Trust Disposition and Deed of Settlement of the deceased Mr. John Clark, junior, of the firm of John Clark, junior, & Co., thread manufacturers, Mile-End, Glasgow. By a Deed of Constitution of date 1st August, 1866, the "Clark Bursary Fund" is placed under the management of twelve trustees. The Bursaries are to be at least two in number, of the annual value of £30, open for competition to all Protestant students of good moral character, sons or daughters of Protestant parents, entering on their first session in the Faculty of Arts (a preference, *cæteris paribus*, given to orphans), and are tenable for four years, subject to the condition that the Bursars proceed through the curriculum of Arts in Glasgow University. On 29th October, 1897, the Trustees resolved that it should not be competent for any one appointed after that date to a John Clark (Mile-End) Bursary to hold any other Bursary or Scholarship concurrently with it, except with the consent of the Trustees. The competition is to be in writing, and the trustees are to appoint the subjects of examination. The Bursary fund consists of the residue of the Testator's estate, said residue amounting to upwards of £35,000. Six Bursaries on this foundation will be open to competition in October, 1902; and will be awarded, four for general excellence, one for special excellence in French, and one for special excellence in German. Awards for the Bursaries for French and German are made only to competitors who have passed the Arts Preliminary and have not obtained any Bursary for general excellence.

Bursars—[1]Robert Burns, 1899 ; [1]James M. Devine, 1899 ; [1]John M'Phee, 1899 ; [1]Kenneth Stewart, 1899 ; [1]John S. Clark, 1899 ; [1]John I. Greig, 1899 ; Robert N. Cross, 1900 ; William B. Donald, 1900 ; Thomas Duncan, 1900 ; Andrew Hutchison, 1900 ; Elias H. Jones, 1900 ; Thomas D. K. Murray, 1900 ; Albert F. L. Brayne, 1901 ; John R. Brown, 1901 ; Robert Browning, 1901 ; James K. Dunlop, 1901 ; Gilbert W. Elliott, 1901 ; Hugh Smith, 1901 ; James C. M. Fairlie, 1902 ; Alexander C. Grant, 1902 ; Thomas Miller, 1902 ; John M'Whan, 1902 ; William M. Ogilvy, 1902 ; Leonard J. Russell, 1902.

COWAN BURSARIES (AYR ACADEMY) (*Arts*).—These Bursaries were founded by the late David Cowan, Esq., of Auchendrane, who bequeathed to the Directors of the Ayr Academy the sum of £2,000, to be invested and held by them in trust, and the annual income thereof applied as Bursaries, to promote the education of two students, one at each of the Universities of Edinburgh and Glasgow, who should have received their previous education, or part of it, at Ayr Academy. These Bursaries are now administered by the "Ayr Educational Trust." Under Scheme 328, Section 26, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 8th February, 1890, the Governors are instructed to apply an annual sum of not less than £80 in establishing Bursaries for University education, to be called the Cowan Bursaries, each of the yearly value of not less than £20 nor more than £30. These Bursaries are awarded by competitive examination among those who have been pupils in the Ayr Academy for at least two years before the date of examination, and only those are eligible for appointment who pass the Preliminary Examination occurring first after the termination of their Academy course ; unless it can be shown to the satisfaction of the Governors that any student was unavoidably prevented by illness or other necessary cause from appearing at the Examination first occurring, in which case the Governors reserve to themselves the power to allow such students, should they so decide, to compete at the next following examination. The Governors have resolved to award them alternately to students of Glasgow and Edinburgh Universities. The Bursaries are tenable for three years, the total value of each being £80, payable by instalments of £30 per annum for the first two years, and £20 for the third year. No student who has gained a Cowan Bursary shall hold along with it any other Bursary or Scholarship which either singly or in combination exceeds the amount of £10 per annum, without the consent of the Governors. On a vacancy, intending candidates must send in their names and addresses to the secretary, Mr. J. G. M'Skimming, 7 Wellington Square, Ayr, before the first day of September; and the Senate of the University of Glasgow undertakes the examination of candidates who offer themselves for the Bursary to be held at this University. (One vacancy.)

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[1] Vacant through lapse of time.

Bursar—William K. White, 1901.

CRAIG BURSARY (*Arts*).—Founded by Mr. John Craig, merchant in Glasgow, in 1697, for students in Philosophy. Tenable for four years. The preference to kindred of Founder, and students of the name of Craig, was cancelled by Ordinance No. 57 of the Universities Commission (1889). Value, £8 6s. 8d. per annum, increased by the Patrons in 1880 to £25. Appointment by the Merchants' House. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st September of the year in which a vacancy occurs.

Bursar—Adam W. Burnet, 1902.

ARCHIBALD CRAIG BURSARY (*Arts*).—The Rev. Archibald Craig, some time minister of the Free Church at Dalton, thereafter residing at Eaglesham, who died on 10th March, 1873, by his Will, dated 4th March, 1873, bequeathed a sum which, with accretions, amounted in 1884 to £250, to be devoted to the foundation of a Bursary in the University of Glasgow. The Trustees of the Bursary Fund are —the Minister for the time being of the Parish of Eaglesham, the Minister for the time being of the United Presbyterian Church, Newton-Mearns, and certain other gentlemen. The Bursary was founded in 1884. It is open to competition, at the annual Bursary Examination, to all students entering on the first session of attendance at the University, who are natives of the parishes of Eaglesham or Mearns, or who for two consecutive years have attended school in either of said parishes; is awarded by the Senate in accordance with the result of that examination; and is tenable for the first two years of such student's attendance at the University. The Bursary is payable at the close of the winter session. Should the Bursary be in abeyance during any session or sessions, from failure of students falling under the above description, the accumulation may, in the discretion of the trustees, be applied to the increase of the Bursary in any subsequent session or sessions, or may be added to the capital fund. (Vacant.)

CRAWFURD AND BROWN BURSARY (*Arts*).—The Crawfurd or Bishop's Bursary was founded by Captain Thomas Crawfurd of Jordanhill in 1576, and was appropriated to a student in Languages. It was tenable for four years, the value being a chalder of meal. The Patrons were the Principal and the Professors of the University. The foundation was remodelled by ordinance of the Universities Commission, dated 7th June, 1862. The Brown Bursary was founded in 1697 by Colonel Brown of Maryland. It was tenable for four years. The annual value was £5, increased in 1880 to £6 13s. 4d. by an addition from the Students' Bursary Fund. This Bursary, being also in the patronage of the Principal and Professors, was combined with the Crawfurd Bursary by Ordinance No. 81 of the Universities Commission (1889), the joint-bursary to be called the Crawfurd and Brown Bursary. The preference as to kindred attaching to the Brown Bursary was abolished. The Crawfurd and Brown Bursary is tenable for four years, the annual value being £19 13s. 4d. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure, if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary.

Bursar—Theodore D. Dunn, 1900.

Donald Cuthbertson Bursary (*Science*).—Founded in 1900 by Sir John Neilson Cuthbertson, LL.D., and Thomas William Cuthbertson, M.A., Trustees of Donald Cuthbertson, LL.B., Accountant in Glasgow, who died on 8th December, 1864. The Bursary Fund amounts to £1,000, being the accumulated revenue and principal of £500 out of the residue of the Testator's estate. The Deed of Foundation provides that the right of nominating the bursar, of determining what classes in the University he shall attend, and of fixing the period of tenure, shall belong to the Trustees. Their subsisting resolution is that the Bursary shall be awarded to a student entering on his course with a view to graduate in Pure Science, account being taken of the proficiency he has shown in passing the Science Preliminary Examination, that it shall be tenable for three years, and that the Bursar shall during that period attend Science classes in the University. The Trustees reserve to themselves power to alter this resolution at any future time, and should they ultimately resign the management of the Trust into the hands of the University Court, then the Bursary shall be administered under the regulations fixed and adopted at the time by the Trustees. The present annual value is £32.

Bursar—Ralph M. F. Picken, 1902.

Davidson Bursaries (*One in Arts and one in Medicine*).—Two in number, founded in 1881, in terms of the Trust Disposition and Settlement of Mrs. Eliza Davidson, who bequeathed £2,000 for that purpose, the one bursary being in memory of her husband, John Davidson, surgeon, Newmilns, and the other in memory of her son, Francis John Ferguson Davidson. A preference is given, *cæteris paribus*, to the Founder's relatives, and to young men natives of the parishes of Muirkirk, Dalserf, Lesmahagow, and Loudon. One of the Bursaries is open to competition to students of the first or second year in the Faculty of Arts, and is tenable for three years, but the second moiety of the third year's Burse is not payable until the bursar shall have passed the examinations in four subjects taken out of at least two Departments for the Degree in Arts. The other Bursary, also tenable for three years, is awarded to the medical student who stands first in the First Professional Examination, provided that his attendance at the classes has not exceeded the requirements of the Ordinance. The present annual value of each is £26. (Arts Bursary vacant.)

Bursar in Medicine—James H. Baird, B.A., 1901.

DENNY BURSARIES (*Any Faculty*).—Four in number, founded in 1875, by the late Peter Denny, LL.D., engineer and shipbuilder, Dumbarton. Value, not less than £30 per annum each, and tenable for four years. Open for competition to all students entering the University who are not under fourteen years of age, and who have been pupils in regular attendance at the Dumbarton Burgh Academy for at least two years, one of which must be immediately preceding the date of such entry. One of the Bursaries will be competed for at the beginning of next session. The examination will be in the same subjects and at the same time as the examination for the other competition Bursaries. The Trustees are Mr. Peter Denny and Mr. Leslie Denny, nominated in 1896 by the Sheriff of Dumbartonshire, the Principal and Professors, and one of the four Assessors of the General Council in the University Court appointed by the four Assessors, or a majority of them, in accordance with the provisions of Ordinance No. 91 of the Universities Commission (1889).

Bursars—[1] James C. Moir, 1899; Henry J. Milligan, 1900; Alexander Laurance, 1901; David B. Smith, 1902.

GLASGOW DUMFRIESSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Two in number, the one founded in 1874 and the other in 1876. They are in value £15 per annum each, are tenable for four years, and consist of the annual proceeds of a sum subscribed by members of the Glasgow Dumfriesshire Society and invested for the establishment of Bursaries in Glasgow University. The Bursaries are open to first and second year's students, between the ages of 14 and 27, who are either descendants of members of the Glasgow Dumfriesshire Society, or natives of Dumfriesshire, or sons of natives resident in Glasgow, whose circumstances render the aid of a Bursary necessary or desirable. Application to be made to the Secretary, Mr. Francis Stoddart, 58 West Regent Street, Glasgow, not later than 1st September of the year in which a vacancy occurs.

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[1] Vacant through lapse of time.

Duncan's Bute Bursaries (*Arts*).—Founded in 1875 for the benefit of natives of the island of Bute, by Mr. James Duncan of Valparaiso, and afterwards of Rothesay, who by his Will of date 19th October, 1874, bequeathed £2,000 for this purpose. The Trustees and Patrons are the Principal, the Professor of Mathematics, the Professor of Natural Philosophy, and the Provost of Rothesay, all for the time being. Candidates must be natives of the island of Bute, and must be entering on their first or second session in the Faculty of Arts at the University. The Bursaries are two in number, tenable for four years; but the Patrons may in each case continue the Bursary for a fifth year to assist a student who may have been assiduous in his Academical studies, in private study, or in Continental travel, or other pursuits conducive to relaxation, combined with enlargement of his experience of men and things. The examination is in the same subjects and at the same time as the examination for the other competition Bursaries. There is a preference, *cæteris paribus*, to the name of Duncan, in such degree as the Patrons shall determine; in other cases of equality the Bursary may be divided. Present annual value, £32 to each Bursar. On 28th October, 1897, the Patrons made a by-law declaring that it should not be competent for any one appointed after that date to a Duncan's Bute Bursary to hold any other Bursary or Scholarship concurrently with it.

Bursars—Renwick Leitch, 1901; Campbell L. Miller, 1901.

Dundonald Bursaries (*Eight in Arts and Six in Theology*).—In 1672, William, Earl of Dundonald, founded seven Bursaries—four in Philosophy and three in Divinity.

In 1858 the surplus funds of this foundation having greatly accumulated, an Act of Parliament was obtained, authorizing an increase in the number of Bursars, but providing that the total number of Bursars in Philosophy shall, at all times, bear to the number of Bursars in Divinity the proportion of four to three, as nearly as may be. The Bursaries are now fourteen in number—eight in Philosophy and six in Divinity.

The Bursaries were further regulated by Ordinance No. 94 of the Universities Commission (1889). The Bursaries in Arts are tenable for four years, but if a bursar graduate at the end of three years, he shall only retain his Bursary for the fourth year of tenure, if he engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The Bursaries in Divinity are tenable for three years, and no longer. A student cannot be appointed to a Dundonald Bursary in Divinity unless he has passed all the examinations required for graduation in Arts. In other respects the provisions of Ordinance No. 57 apply to all the Bursaries on this Foundation. The Bursars in Arts receive £40 each per annum, and those in Divinity £41 2s. 6d.

The patronage lies with the Trustees of the late Duke of Hamilton, and is exercised by their Commissioner, George Dalziel, Esq., 66 Queen Street, Edinburgh, to whom applications should be sent on or before the first of September. One appointment in Arts and one in Divinity will be made for next session.

Bursars in Philosophy—[1] William R. Merry, 1899; Donald Macphie, 1900; John W. Scott, 1900; Robert Jack, 1901; James A. Stephen, 1901; Douglas H. Wilson, 1902; Joseph Davidson, 1902.

Bursars in Divinity—[1] William M. Tait, M.A., 1900; [1] John M. Pryde, M.A., 1900; William Lindsay, M.A., 1901; George Muir, M.A., 1901; William J. Jamieson, 1902; Frank W. Saunders, 1902.

ELDER BURSARIES.—With a view to the encouragement of merit shown by the sons of working men, Mrs. Elder has intimated her intention of giving annually to the most deserving student of the Science and Art Classes in connection with the Young Men's Christian Association, Govan Section, a Bursary of £25 per annum, to which will be added by the Department of Science and Art an equal sum, making £50 in all. The Bursaries will be tenable for two years.

Candidates must have taken the undermentioned classes in the Govan Science and Art Section:—Mathematics (2nd stage); Theoretical Mechanics (Elementary); Steam and the Steam Engine, or Naval Architecture (advanced stage).

The competition by which the Bursar is to be selected will be in the above subjects, and will be conducted by the Department of Science and Art at the examination in May.

Candidates must be employed in workshops on the Govan side of the Clyde from Glasgow to and including Renfrew, or must reside in the district. A Bursar will be required to enrol in and attend the following classes at the University during the first year of his attendance:—(1) Natural Philosophy; (2) Chemistry (lectures); (3) Mathematics; (4) Naval Architecture and Marine Engineering. During the second year of attendance: (1) Mathematics; (2) Civil Engineering and Mechanics (lectures); (3) Naval Architecture and Marine Engineering. These Bursaries are to be continued during Mrs. Elder's pleasure.

JAMES EWING ENTRANCE BURSARIES (*Arts*).—Four in number, founded in 1879 by the Merchants' House of Glasgow in accordance with the Deed of Endowment of the late Mr. James Ewing of Strathleven. The Directors resolved to apply annually £80 of the income of his legacy of £10,000 for educating, training, and settling in business the sons of Glasgow merchants in entrance Bursaries of £20 each. The Bursaries are tenable for four years by students giving regular attendance on classes in the Faculty of Arts. Open to first year's students. The appointments to the Bursaries will be made in accordance with the annual Bursary competition at the commencement of the session; candidates to be qualified as above. Applications to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st September, in each year. (One vacancy.)

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[1] Vacant through lapse of time.

Bursars—John C. Middleton, 1900; Campbell Stephen, 1901; Charles M'Neil, 1902.

JAMES FERGUSON BURSARIES (*Theology, Law, Medicine, or Department of Engineering Science*).—Two in number, founded in 1877, under provision of the Trust Disposition and Settlement of the late James Ferguson, Esq., of Wiston, and consisting of the annual proceeds of a sum of £3,600. The Bursaries are tenable in the University of Glasgow for two years in any of the three Faculties of Divinity, Law, or Medicine, or in the Department of Engineering Science. The Bursaries are awarded for special proficiency in Arts studies, according to the following rotation, viz.:—In November, 1878, and thereafter triennially, in Mental Philosophy, together with English Literature; in November, 1879, and thereafter triennially, in Mathematics and Natural Philosophy; in November, 1880, and thereafter triennially, in Classical Literature. The Examination is the same as that for honours in the Groups of Classics, Mental Philosophy, and Mathematics and Natural Philosophy respectively (with the addition in the case of the Group of Mental Philosophy of a paper on English Literature), at the annual Examination for Degrees in October. Candidates must have completed the course of attendance required for admission to examination in the corresponding Group for the Degree of M.A. with Honours. Each Bursar must pursue the course of study for such Degree in Divinity, Law, Medicine, or Engineering Science, as he may, with approval of the Senate, select. In the event of a successful candidate not having completed attendance on the Arts classes necessary to qualify for the Degree of M.A., he shall be at liberty, without forfeiting his right to the Bursary, to continue his studies in Arts for two years, in order that he may complete his qualifications for graduation; but no part of the Bursary shall become payable until he has selected and entered upon a course of study in one of the three Faculties above mentioned, viz.:—Divinity, Law, or Medicine, or in the Department of Engineering Science. While the Bursary is tenable for two years of such course, the Bursar must continue his attendance on classes beyond the two years, if this be necessary for graduation or for receiving the Certificate of Proficiency in Engineering Science. The Bursar shall not receive payment of any half-yearly Burse without such evidence as the Senate may require that he is faithfully pursuing the selected course, and shall not receive payment of the fourth half-yearly Burse until he has graduated or received the Certificate of Proficiency in Engineering. Unless a candidate comes up to at least the standard of Second Class Honours, the Senate shall not be bound to award the Bursary. There is a preference, *cæteris paribus*, to young men natives of the parishes of Lesmahagow or Muirkirk, or the province of Pictou, Nova Scotia, and also to young men of the name of Ferguson or Weir, or to descendants and relatives of the founder.

Candidates for the Bursary to be competed for in 1903 will be examined in Mathematics and Natural Philosophy along with the examinations on these subjects for the Degree of M.A. with Honours. Names to be given in to the Assistant Clerk (Matriculation Office) not later than 16th September.

Bursar—[1] James Moyes (Classics), 1901 ; Eric J. Roberts (Mental Philosophy), 1902.

FORFAR BURSARIES (*Arts*).—Founded by the Countess of Forfar in 1737. The foundation was remodelled by the Universities Commission (1858), by Ordinance of 31st May, 1862, and further regulated by Ordinance No. 79 of the Universities Commission (1889) of date 15th February, 1895. There are now five Forfar Bursaries in the gift of the Senate: the holder of each to receive £36, if the funds allow. These Bursaries are open for competition to all students entering the first or second session of attendance at the University. They are tenable for four years, subject to the condition that the bursar shall proceed through the curriculum in Arts, and shall pass the examinations for the Degree of M.A. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 of the Universities Commission (1889) apply to the Forfar Bursaries. The Senate, acting under Section XIII. of the said Ordinance, have resolved to award four of these bursaries in respect of exceptional distinction in Classics, viz., one each year to a student of the first year who, having passed the Arts Preliminary, has gained the highest marks in Latin and Greek in the Bursary examination and has not obtained a bursary for general excellence.

Bursars—[1] William S. B. Wilson, 1899 ; Robert Harvie, 1900 ; Dugald F. Percy, 1900 ; Thomas D. K. Murray, 1901 ; John C. Rollo, 1902.

FORREST BURSARIES (*Any Faculty*).—Founded by Mr. William Forrest of Easter Meadowhead, Drumgelloch, and Meadowside, by Deed of Mortification of date 6th March, 1858. The Trust was reconstituted in 1886, under a Scheme of the Educational Endowments Commission. The Bursaries are five in number, each of the annual value of £22, and tenable at the University of Glasgow for such number of years, not exceeding five, as the Governors may determine. The Bursaries are awarded by competitive examination among young men who require aid in obtaining a University education, and who have been pupils in public or State-aided schools within the parishes of New Monkland, Slamannan, and Shotts, or who are natives of said parishes. Bursars cannot hold another Bursary, must prosecute a course for some degree, and attend at least two classes each session.

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[1] Vacant through lapse of time.

Governors—The Provost of Airdrie, the ministers of the parishes of New Monkland, Airdrie, and Clarkston, one representative from each of the School Boards of Airdrie and Clarkston, and one from the School Boards of Slamannan and Shotts alternately, and one appointed by the Sheriff of Lanarkshire. Secretary, Mr. G. B. Motherwell, Town Clerk, Airdrie. (Two vacancies.)

Bursars—William Allan, 1899; Joseph Cupples, 1900; Harry A. Kellow, 1900; William Lang, 1901; Humphrey Clark, 1902.

FORRESTER BURSARY (*Arts*).—Founded in 1901 by the Trustees of the late James Forrester, merchant in Airdrie, in accordance with the instructions contained in his Trust Disposition and Settlement. The Trustees are the patrons. The Bursary, which is of the annual value of £22 to £25, and tenable for three years, is open to competitors of either sex, born in the parish of Dunblane or Lecropt, and requiring assistance to enter the University. It will be awarded after public examination of the candidates at the Bursary Competition in connection with the Faculty of Arts in the University of Glasgow. It shall not be held by any Bursar along with any other Bursary or Scholarship whatsoever. If two candidates are found to be equal in merit, the Trustees may divide the Bursary between them. When no candidate of sufficient merit makes application, the Bursary will lapse until the following year. Whenever the Bursary remains vacant for a year or years, the income accumulated will go to increase the Benefit of the first successful applicant, the accumulated interest being spread over the three years of tenure. When a vacancy occurs, applications should be lodged with Mr. Alexander B. Barty, Writer, Dunblane, on or before 1st September. (Vacant).

FOUNDATION BURSARIES (*Arts*).—These Bursaries were founded by James VI., in 1577, for students in Languages and Philosophy, and were originally four in number. By ordinance of the Universities Commission (1858) of date 7th June, 1862, these Bursaries were remodelled, and were further regulated by Ordinance No. 84 of the Universities Commission (1889) of date 15th February, 1895. Under the new scheme there are two Foundation Bursaries, the holder of each to receive £20 per annum. They are open for competition to all students entering the first session of attendance at the University, and are tenable for four years. The class attendance of the Foundation bursars is regulated by Ordinance No. 57, Sec. III. The Senate, acting under Section XIII. of the said Ordinance, have resolved to award these bursaries in respect of exceptional distinction in English, viz., one bursary in alternate years to a student of the first year who, having passed the Arts Preliminary, has gained the highest marks in English in the Bursary examination and has not obtained a bursary for general excellence If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science.

Bursars—Annie M. MacGregor, 1900; Alexander Hutchison, 1901.

FRANCO-SCOTTISH SOCIETY'S TRAVELLING BURSARIES (*Arts*).—The Scottish Branch of the Society offers for 1904 four Travelling Bursaries of £30 each for competition among Scottish students. The examination will be held simultaneously in the four Scottish Universities probably during March, 1904. Candidates must send their names, addresses, and certificates of attendance in at least one of the University French Classes, during one or both of the sessions 1902-3 and 1903-4, to A. A. Gordon, Esq., C.A., Hon. Sec., 128a George Street, Edinburgh, during February, 1904. Candidates from the Training Colleges, if specially recommended by the respective Rectors, will also be admitted to the examination, although they have not attended University Classes. The Bursars are required to study French in France for at least three months, to the satisfaction of the Society.

The competition is open to those candidates only who hold no other Scholarship, Bursary, or Grant for the purpose of enabling them to study French. For fuller details see the newspaper advertisements during February and March, 1904.

FULLARTON OF OVERTON BURSARIES (*Arts*).—By Deed of Mortification and Constitution dated 22nd December, 1877, the Executors of the late John Fullarton, Esq., of Overton, West Kilbride, Ayrshire, in pursuance of his Trust Disposition and Settlement and Codicils, assigned to the Principal and Professors of Glasgow University, as Patrons, the residue of his estate, amounting to £2,604 17s. 7d., for the purpose of founding five Bursaries, more or less, each of the annual value of at least £10, but not exceeding £30. The present annual value to each bursar is £22. The Bursaries are tenable for two years by students in Arts under 25 years of age, belonging to or resident in the district of Cunninghame, in Ayrshire, children of parents whose means and social position are not above those of tradesmen, small farmers, or shopkeepers, or others who may be struggling to secure their better education, and are by themselves, or with such assistance as they may be able to get from their parents or relations, unable to provide for the expenses of a University education. The Bursaries are awarded by competitive examination in Latin, Elementary Mathematics, and English; but no candidate is eligible who has attended any University for more than one session. A Bursary may be divided between two candidates of equal or nearly equal merit, but as between a candidate who has not previously attended any University and a candidate who has so attended, the former is preferred. A Bursar may attend each session one or more of the classes in the Faculty of Arts, the selection of classes being left to his own option. Any accumulations through vacancies are added to the capital sum. Candidates are required to produce evidence of age.

Bursars—[1] William D. Borland, 1901; [1] John B. Orr, 1901; James Barclay, 1902; Alexander F. MacRobert, 1902; Alexander Hynd, 1902.

WILLIAM GARDINER BURSARIES (*Arts*, *Medicine*). — William Gardiner, M.D., of Ashton-under-Lyne, by his Settlement, dated 27th September, 1897, directed his Trustees to pay over to the University Court the sum of £1000, free of legacy duty, for the purpose of founding one or more Scholarships, Bursarships, or Exhibitions, to be devoted to such objects and in such manner as the Court should think fit, preference being given to students of Chemistry, Physiology, and Physics, French and German, and, so far as practicable, to sons of medical men, lawyers, and teachers.

The following regulations were approved by the University Court on 4th October, 1900:—

1. The Bursaries shall be two in number, equal in value, and each tenable for two years.

2. One Bursary shall belong to the Faculty of Medicine, and shall be awarded after the Autumn Professional Examinations in Medicine to the candidate who in the year in which the bursary is open has passed in Physiology of the second professional examination, and whose aggregate of marks in that subject and in Chemistry and Physics of the first professional examination, is the highest.

3. The other Bursary shall belong to the Faculty of Arts, and shall be awarded to the student who obtains the highest marks in French and German as subjects of the General Bursary examination in the year in which the Bursary is open, provided that it shall be in the power of the Senate to award the bursary for decided proficiency shown by a candidate in one of the said languages. The holder of this bursary must attend the French class or the German class in the University, and pass the examination in one or other of these subjects required for graduation in Arts. The second moiety

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[1] Vacant through lapse of time.

of the second year's Burse shall not be paid until the Bursar shall have passed this examination.

4. Either of the William Gardiner Bursaries may be held along with any other Bursary in the University, if the regulations of that other Bursary permit.

5. The Bursaries shall be open to both men and women, effect being given, *cæteris paribus*, to the preference expressed in the Will of Dr. Gardiner for sons of medical men, lawyers, and teachers.

The present annual value of each is £13 10s.

Bursars—[1] Walter Hubbard (Arts), 1901 ; [1]Peter L. Sutherland (Medicine), 1901.

GARTMORE BURSARY (*Arts*).—In accordance with the directions of the Founder of the Gartmore Medal (see p. 370), the Universities Commission (1889), by Ordinance No. 98, founded this Bursary, a sufficient capital having accumulated from the surpluses of the Foundation. It is open by competition to all students entering on their first year of attendance on a course for graduation in Arts, and is tenable for three years. Value, £21 per annum. In other respects the provisions of Ordinance No. 57 apply to the Gartmore Bursary.

Bursar—[1] Andrew C. Baird, 1900.

GENERAL COUNCIL BURSARIES (*Arts*).—Under a scheme originated by the late Mr. David Hannay, Clerk to the General Council, a sum of about £500 (Fund No. I.) was raised by subscription among the members of Council for the foundation of Bursaries to be held for three years, and open to competition to first and second year's students in Arts. This fund has now been exhausted. In addition, a sum of £2,382 2s. (Fund No. II.) was raised to form the nucleus of a permanent General Council Bursaries Fund, and invested in the names of Trustees. Of this sum £1,000 is due to the liberality of the late Rev. Wm. Park, D.D., minister of Airth, to be applied in memory of his brother, the Rev. John Park, D.D., minister of Cadder. With Dr. Park's consent, the income of this sum was appropriated to two General Council Park Bursaries of £20 a-year, open to students of either sex who, having passed the Preliminary Examination in Arts, are about to commence their second year of actual attendance at the University. The General Council Park Bursaries are tenable for two years. The remainder of the free income of the fund is devoted to providing bursaries, called the General Council Bursaries, of such number and of such amount as may from time to time be determined by the Trustees. The General Council Bursaries are open to students of either sex on their first entering the University, and are tenable for three years. No candidate shall obtain a General Council Bursary who shall not have passed the Preliminary Examination in Arts, but it is in the power of the Trustees to admit to a General Council Bursary, a candidate who has passed in at least three subjects of the Preliminary Examination on condition that the bursary shall not be retained unless the bursar passes in all the subjects not later than the second Preliminary Examination held after the time of admission. In 1903 and triennially thereafter one General Council Bursary shall be awarded in respect of special distinction in Dynamics to the student of the first year who, having passed the Arts Preliminary, has gained the highest marks in Dynamics in the Bursary examination, and has not obtained a bursary for general excellence.

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[1] Vacant through lapse of time.

Bursars—[2] David M'Millan, 1900; [1] Helen Muir, 1901; [2] Mary V. Hunter, 1901 (Park); Gilbert P. Hogg, 1902; William Scott, 1902 (Park).

John Gibson Bursaries (*Any Faculty*).—Founded in 1877 by Miss Jane Gibson, in memory of her father, John Gibson of Oakbank and Johnstone, merchant in Glasgow. The Bursaries, which may be given to one student, or at most two, consist of the annual proceeds of £1,000. The administration is vested in trustees, who have great discretionary powers as to the conditions on which the Bursaries may be held. Their subsisting resolution is to award the Bursary to a Medical student entering on the third year of his course, and that it be retainable for three years. When a vacancy occurs applications are to be made in September to Messrs. A. J. & A. Graham, 198 West George Street, Glasgow, who will furnish forms of application. (No vacancy.)

Bursars—Robert T. Leiper, (one year), 1903; George M. Gray, 1901.

Dr. Thomas Gibson (Rothesay) Bursary (*Medicine*).—Founded in 1893 in terms of the Trust Disposition and Settlement of Misses Christian and Janet Gibson, who bequeathed £1,000, free of legacy duty for that purpose, in memory of their brother. Present annual value, £32. The Bursary is tenable for four years, and is open to any matriculated student of Medicine (male or female) in the University preparing for service as a Medical missionary in connection with the Church of Scotland, who has completed the first professional examination in the year in which the Bursary is open. The Bursary is awarded to the qualified applicant who has obtained the best marks in the said examination; but in the case of an equality of marks between two or more candidates, the Senate may hold a further examination to determine to which of such candidates the Bursary shall be awarded. In the case of a casual vacancy, the Senate may appoint for the remainder of the period of tenure any qualified applicant who has shown diligence and proficiency in the earlier part of the curriculum in Medicine. In the event of the Bursary not being awarded in any year or years from lack of qualified candidates, the Senate may, in any subsequent year, if the funds of the Foundation admit, award an additional Bursary for one or more years, not exceeding four. There is a preference, *cæteris paribus*, to students of the name of Gibson.

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[1] Vacant by resignation.

[2] Vacant through lapse of time.

Bursar—Robert Macfarlane, 1900.

GILCHRIST BURSARY.—See Howison and Gilchrist, p. 301.

GILHAGIE AND STRUTHERS BURSARY (*Theology*).—The Gilhagie Bursary was founded in 1753 by Agnes Gilhagie, widow of William Somerville, merchant in Glasgow, for a student in Divinity. It was tenable for four years, the annual value being £6 6s. In 1624 the Rev. William Struthers founded two Bursaries, each of the annual value of £6 13s. 4d., for students of Divinity. By Ordinance of the Universities Commission (1858) the two Struthers Bursaries were conjoined into one, tenable for three years, the holder to be M.A., and a student of Divinity. All other restrictions were abolished. By Ordinance No. 82 the Universities Commission (1889) combined the Gilhagie Bursary and the Struthers Bursary into one, called the Gilhagie and Struthers Bursary. The patrons of the joint-bursary are the Magistrates, Town Council, and Ministers of Glasgow, who may present any person without preference as to name, provided that he be a Master of Arts of a Scottish University. The Bursary is tenable for three years, and no longer, subject to the condition that the bursar shall during that period give regular attendance as a student of Theology in the University of Glasgow. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

Bursar—Augustine W. S. Forbes, M.A., 1901.

GLASGOW CITY EDUCATIONAL ENDOWMENTS BURSARIES (*Arts, etc.*).—Under scheme 10, section 31, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 19th May, 1885, the Governors of the Glasgow City Endowments Board are instructed to apply the annual sum of £500 in establishing Bursaries at the University of Glasgow. Each Bursary is of the yearly value of £25. One half of these Bursaries are to be awarded among the King's Scholars at Training Colleges who have attended two years at the University of Glasgow, on the report of the Board of Examiners appointed by the Scotch Education Department. Every King's Scholar obtaining such Bursary shall be taken bound to complete his curriculum for a degree in Arts or Science during the time he holds the Bursary, and thereafter to submit himself for examination for such degree. The other half of the Bursaries are to be awarded by competitive examination among those who have attended public or State-aided schools in Glasgow, and who require aid in obtaining a University education. They are tenable for four years. Forms of application may be had from the Secretary of the Board—Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the 1st day of September in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary at the general competition. In 1903 five King's Scholars and three other Bursars will be appointed.

Bursars—[1] William Ferguson, 1899; [1] George P. Granger, 1899; [1] Jacob Levine, 1899; William Miller, 1900; Andrew W. Rogerson, 1900; John M. Miller, 1901; Elsie F. Macdonald, 1901; William M. Fulton, 1901; James M'Kelvie, 1902; Francis M. Smith, 1902.

King's Scholars—[1] Samuel N. Forrest, 1901; [1] Peter Marshall, 1901; [1] Charles G. Nelson, 1901; Thomas M. Watt, 1902; Andrew W. Hutchison, 1902; William M'Bride, 1902; Theodore D. Dunn, 1902; Dugald F. Percy, 1902.

GEORGE GRANT BURSARY (*Arts*).—Founded in 1885 by Miss Susan Smith Grant of West Thorn, Lauder Road, Edinburgh, in memory of her father, George Grant, Esq., cotton spinner, Mile-End, Glasgow. Miss Grant assigned and conveyed to the Senate the sum of £1,200 in trust, to be applied in all time coming for providing one Bursary in connection with the Faculty of Arts. Miss Grant retains the right of nomination to the Bursary during her lifetime, but has provided that in the event of her failing or declining to nominate, and in all cases after her death, the Bursar shall be determined by competitive examination of first year students who are entering on a three or four years' course of study, and the Bursary shall be tenable for three or four years accordingly. On the Bursary falling vacant otherwise than by lapse of time, an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar is required to graduate in Arts, and before payment of the second moiety of the last year's Bursary he must produce evidence that he has taken his degree, or that he has passed all the examinations necessary for graduation. Any accumulations from vacancies or otherwise are to be added to the capital sum.

Bursar—Agnes M. Marshall, 1902.

GEORGE GRANT, JUNIOR, BURSARY (*Arts*).—Founded in 1885 by Mrs. Agnes Grant or Mair, wife of the Rev. John Mair, D.D., minister of the parish of South Dean, Roxburghshire, in memory of her brother, the late George Grant, junior, cotton manufacturer, Mile-

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[1] Vacant through lapse of time.

End, Glasgow. Mrs. Mair, with the advice and consent of her husband as her curator and administrator-in-law, and for his interest in the premises, assigned and disponed to the Senate the sum of £1,200 in trust, to be applied by them in all time coming for providing one Bursary in connection with the Faculty of Arts. Mrs. Mair reserved to herself during her lifetime, and thereafter to her husband, should he survive her, the right to nominate to the Bursary, and to fix the classes to be attended by the Bursar and the period of his tenure. The Bursary is tenable for four years, and the Bursar is selected by competitive examination of first year's students. In the event of a vacancy occurring otherwise than by lapse of time an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar is required to graduate in Arts, and before payment of the second moiety of the last year's Bursary must produce evidence that he has taken the degree, or that he has passed all the examinations necessary for graduation. Any accumulations through vacancies or otherwise are to be added to the capital sum. (Vacant.)

HAMILTON BURSARIES (*Three in Arts, and Three in Theology*).—These Bursaries, now six in number, were founded by Anne, Duchess of Hamilton, in 1694. They were regulated by Act of Parliament, 1758, and further regulated by Ordinance No. 96 of the Universities Commission (1889). There are three Hamilton Bursaries in the Faculty of Arts, and three in the Faculty of Divinity, and each of them is tenable for three years, and no longer. The bursars in the Faculty of Arts shall attend such classes qualifying for graduation in Arts, and in such order as may be approved by the Senate. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this Foundation. The bursars in Arts receive £20, those in Divinity £25 per annum each, should the state of the funds permit. The patronage lies with the Trustees of the late Duke of Hamilton, and is exercised by their Commissioner, George Dalziel, Esq., 66 Queen Street, Edinburgh, to whom applications should be sent on or before the first of September.

Bursars in Arts—[1] Neil Leitch, 1900; Robert Dewar, 1901; John H. Brightman, 1902.

Bursars in Theology—[2] Alexander Williamson, 1900; William W. Clark, 1901; Humphrey Chalmers, 1902.

HAMILTON EDUCATIONAL TRUST BURSARIES (*Arts*).—Under scheme 39, section 28, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 13th May, 1887, the Governors of Hamilton Educational Trust are instructed to apply a sum, not less than £50 yearly, in providing University or Technical College Bursaries. These Bursaries, each of the yearly value of £15, and tenable for three years, are open to be competed for by pupils attending public or State-aided schools in the burgh and parish of Hamilton, who require aid in obtaining a University or higher education. Applications to be lodged with Patrick Keith, Esq., Hamilton, Clerk of the Trust, on or before the first day of September. There will probably be a vacancy to which an appointment may be made in November, 1903.

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[1] Vacant through resignation.

[2] Vacant through lapse of time.

Bursars—Robert N. Cross, 1901 ; Thomas Ritchie, 1902.

HANNAY BURSARIES (*Arts*).—Three in number, founded in 1865 by the late Mr. Anthony Hannay, merchant, Glasgow, in memory of his deceased wife. To be awarded to young men, not under fourteen and not above nineteen years of age, who are about to commence their studies in the Arts classes, with a view to the Holy Ministry in connection with any of the Evangelical Religious Denominations in Scotland, and who shall engage to attend during each of the first three years of the curriculum not fewer than two classes. The principal qualifications of those to be selected are good moral character, promising talent, a fair preliminary education, and a want or deficiency in the necessary pecuniary means for pursuing a University education. Candidates for these Bursaries are required to submit themselves to the annual Bursary Examination at the commencement of the Winter Session of the University of Glasgow, or such other examination as the trustees may appoint ; but the result of said examination shall only be taken as one of the tests in judging of the merits of the applicants. The Bursaries to be bestowed for three years—one to be given each year. Value, about £15 per annum each. The appointment is vested in the Principal, the Dean of the Faculty of Procurators in Glasgow, and the President of the Faculty of Physicians and Surgeons in Glasgow. Applications to be made to Mr. Robert Brodie, 77 St. Vincent Street, and also to the Assistant Clerk (Matriculation Office) not later than 1st September.

Bursars—[1]Robert A. C. Macmillan, 1900; Archibald A. Campbell, 1902.

HASTIE BURSARIES (*One in Arts and Two in Theology*).—The Rev. Mr. Hastie, by Deed of Mortification dated 5th September, 1707, founded a Bursary for a student in this University, which was first awarded in 1718. By an addition afterwards made to the foundation, the number of Bursaries was increased to three, two in Divinity and one in Philosophy.

The Universities Commission (1858), in an Ordinance of date 31st May, 1862, made regulations for these Bursaries, and further regulations have been made by the Commissioners (1889) in Ordinance No. 90. There are now three Bursaries on this Foundation, each £25 in value—one in Arts and two in Theology. The Bursary in Arts is open by competition to all students entering on their first session of attendance in the Faculty of Arts, and is tenable for four years, but if a student graduate at the end of three years, he shall only retain his Bursary for the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The Bursaries in Divinity are open by competition to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first session of attendance in the Faculty of Divinity. They are tenable for three years, and no longer. In other respects the provisions of Ordinance No. 57 of the Universities Commission (1889) apply to all the Hastie Bursaries. The Senate, acting under Section xiii. of the last-mentioned Ordinance, have resolved to award the Hastie Bursary in Arts in respect of exceptional distinction in English, to a student of the first year who, having passed the Arts Preliminary, has gained the highest marks in English in the Bursary Examination, and has not obtained a bursary for general excellence.

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[1] Vacant through lapse of time.

Bursar in Arts—James D. Paterson, 1902.

Bursars in Theology—[1] William A. Gillies, M.A., 1900; Thomas Low, M.A., 1901.

Glasgow Highland Society's Bursaries (*Ten in Arts and Eleven in Medicine*).—In 1892 the Managers of the Glasgow Highland Society framed a scheme of Scholarships and Bursaries for students of Highland descent. The scheme includes Scholarships tenable at Secondary or Technical Schools, and Bursaries tenable at the Glasgow and West of Scotland Technical College and at the University. The Bursaries may be held by men or women in a proportion to be determined by the Managers. The University Bursaries in Arts are ten in number, each of the annual value of £20, and tenable for four years in the Faculty of Arts, but the continuance of a Bursary in the second and subsequent years is dependent on the character of the certificates obtained by a Bursar in his classes in the previous year. They are awarded by competition among students of the first year. The Bursaries in Medicine, each of the annual value of £25, are tenable for five years in the University, or any other College approved by the managers. Candidates must pass the preliminary examination of the College at which they desire to attend, and the managers reserve to themselves the right to appoint the most suitable. In 1903 there will probably be two Bursaries in Arts and two in Medicine open to competition. Secretary, Mr. Hugh Brown, Jun., 58 St. Vincent Street.

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[1] Vacant through lapse of time.

Bursars in Arts—[1]George Campbell, 1899; [1]Hugh C. M'Coll, 1899; Peter C. M'Arthur, 1900; Alexander Murray, 1900; George W. Walker, 1900; Alexander Beaton, 1900; James C. M'Gregor, 1901; Alexander D. Ross, 1901; Roderick Morrison, 1901; Stewart L. W. Ross, 1902; James Carmichael, 1902; George M'Leod, 1902.

Bursars in Medicine—[1] Malcolm Hutton, 1898; [1]William Stewart, 1898; Andrew M. Pollock, 1899; George D. M. Beaton, 1900; Murdo D. M'Kenzie, 1900; William Davidson, 1901; John H. Bisset, 1901; Murdo M. MacRae, 1901; Neil A. M. Johnson, 1901; Murdo M'Phail, 1902; Robert C. Robertson, 1902; Andrew W. M. Steele, 1902.

HILL BURSARIES (*Arts*).—Two Bursaries of the annual value of not less than £10, nor more than £25 (present value £15). These Bursaries tenable for three years shall be awarded on the results of the Bursary Competition of the University of Glasgow, and shall be open to pupils attending the secondary departments of public or State-aided schools in the district of the School Board of the Parish of Govan, who shall be approved by the Governors of Hill's Trust, and whose parents are in such circumstances as to require aid in giving their children higher education. Secretary, John A. Craigie, Esq., 151 Bath Street, to whom in case of a vacancy application should be made before 1st September.

Bursars—Flora Ritchie, 1901; Janet I. Macphail, 1901.

HOWISON AND GILCHRIST BURSARY (*Arts*).—In 1613 the Rev. John Howison, Minister of Cambuslang, founded a Bursary for a qualified scholar of honest name and good report, son of a craftsman of Glasgow. Failing the son of a craftsman of Glasgow, any other qualified scholar might be selected by the Patrons. Mr. John Gilchrist, tailor in Glasgow, founded in 1700 a Bursary in Philosophy for a student, being the son of a tradesman freeman in the burgh of Glasgow, with a preference to the names Gilchrist, Bryce, and Boyd. By Ordinance No. 89 the Universities Commission (1889) combined these two Bursaries into one, called the Howison and Gilchrist Bursary. The Patrons are the Trades' House of Glasgow, and any person may be presented without restriction as to birth or preference as to name. The Bursary is tenable for four years, but if a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary. Value £17 per annum.

Bursar—John F. Steven, 1900.

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[1] Vacant through lapse of time.

HUTCHESONS' EDUCATIONAL TRUST BURSARIES.—Under Scheme 9, Section 40, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 5th March, 1885, the Governors of Hutchesons' Educational Trust are instructed to apply an annual sum of not less than £400 in establishing University or Technical College Bursaries. These Bursaries, each of the yearly value of £20, and tenable for four years, are open to be competed for by boys who have attended Hutchesons' Grammar School for at least two years immediately preceding the competition, and completed the curriculum in the Secondary Department. Forms of application may be had from the Secretary of the Trust—Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the first day of September in each year. The names of candidates who are found to possess the prescribed qualification will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in the order of merit who fail to win a Bursary at the general competition. In 1903 five Bursars will be appointed.

Bursars—[1]Ebenezer Macmillan, 1899; [1]Macdonald Munro, 1899; [1] Alexander S. M. Macgregor, 1899; [1] Tom D. M'Ewan, 1899; [1] Alexander Ballantyne, 1899; [1]Archd. Y. Hutchison, 1899; James Fairley, 1900; Dugald M'Callum, 1900; John N. M. Paterson, 1900; Thomas T. Rankin, 1900; William R. Cammock, 1901; Aaron Cantor, 1901; William J. Falside, 1901; William T. Heughan, 1901; James R. Mitchell, 1901; David H. Battersby, 1902; William M. Kerr, 1902; Thomas Sutherland, 1902; John R. Govan, 1902; James Muir, 1902.

THOMAS HUTCHESON BURSARY (*Theology, Law, or Medicine*).—This Bursary, formerly known as the Old Library Bursary, was founded by Mr. Thomas Hutcheson of Lambhill in 1641. Preference was given to a son of a burgess, particularly one of the name Hutcheson or Herbertson. The Patrons are the Magistrates and Town Council of Glasgow. Ordinance No. 83 of the Universities Commission (1889) prescribes that the Bursary shall be called the Thomas Hutcheson Bursary, and that it shall be lawful for the Patrons to appoint to it, without preference as to name or birth, any Master of Arts who is entering on his course of study in any one of the Faculties of Divinity, Law, or Medicine. The Bursary is tenable for four years, but if a bursar in Divinity graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study in Divinity approved by the Senate. Value £11 2s. 2¾d. per annum. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

Bursar—Theodore D. Lowe, 1900.

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[1] Vacant through lapse of time.

Hyndford and Ross Bursary (*Arts*).—In 1617 Mr. Michael Wilson founded a Bursary, called the Hyndford Bursary, for a student in Philosophy. The right of presentation belonged to the representative of Sir James Carmichael, viz., Sir W. C. Anstruther, Bart. In 1659 Captain William Ross of Rosseyle founded the Ross Bursary for a student in Languages and Philosophy. The appointment was vested in the Earl of Glasgow. By Ordinance No. 95 of the Universities Commission (1889), these two Bursaries were combined into one, to be called the Hyndford and Ross Bursary. It is tenable for four years, but if the bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The patronage of the Bursary is vested in Sir W. C. Anstruther, Bart., and his heirs, and the Earl of Glasgow and his heirs, who exercise their right of presentation by turns. The appointment in 1903 belongs to the former. In other respects the provisions of Ordinance No. 57 apply to the Bursary. Value £10 16s. 8d. (Vacant.)

John Ferguson Jaffrey Bursary in Mental Philosophy (*Arts*).—This Bursary, founded in 1877, is of the annual value of £34, and shall be awarded to a student on entering the third session of his attendance, *i.e.* a student who has attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who having passed the Preliminary Examination in Humanity and Greek, has attended for one session the higher classes in those subjects, and who proposes to attend in the following sessions the classes of Logic, Moral Philosophy, and English Literature. Candidates are examined in such subjects in English Literature and Logic as may be fixed by the Senate. The examiners are the Professors of English Literature, Logic, and Moral Philosophy. The Bursary shall, as a rule, be tenable for two years, but on condition that the Bursar, during the two years of his tenure, shall complete his attendance on the classes of Logic, Moral Philosophy, and English Literature, and shall also attend one at least of the advanced classes taught by the Professors of Logic and Moral Philosophy, and shall pass the examinations in Logic, Moral Philosophy, and English Literature for graduation in Arts. The subjects of examination are—1. *Logic*: (*a*) Descartes, *Meditations*, (Veitch's translation); (*b*) Ferrier, *Lectures on Greek Philosophy*, the pre-Socratic period; 2. *English Literature*: (*a*) Shakespeare, *As You Like It*; (*b*) Tennyson, *Idylls of the King*. Candidates are not expected to deal with questions of textual criticism on either of the works in English Literature. There will be a competition in November, 1903.

Bursar—John Hutcheson, 1901.

MALCOLM KERR BURSARIES (*Science, etc.*).—Two in number, founded in 1874, and consisting each of half the free annual proceeds of a sum of £1,000, bequeathed by the late Mr. Malcolm Kerr, stationer in Glasgow. One of the Bursaries is in Natural Philosophy, the other in Chemistry. The Bursaries are given on examination, and are tenable for three years, provided the Bursars continue for so long to prosecute in the University Laboratories, to the satisfaction of the Senate, the study of Natural Philosophy and Chemistry respectively. The subjects of examination in Natural Philosophy are the same as those for that subject in the examination for the ordinary degree of M.A., and in Chemistry, the same as those for the Final Science Examination for B.Sc. Present value, £20 to each Bursar. (Bursary in Chemistry vacant.)

Bursar in Natural Philosophy—James Hunter, 1901.

THE KINTYRE (KER) BURSARY (*Any Faculty*).—This Bursary, founded in 1862 by Robert Ker, Esq., of Auchinraith, merchant in Glasgow, originated in the Founder's desire "to increase the opportunities of acquiring knowledge to the natives of Kintyre."

The Office-bearers of the Kintyre Club were appointed Patrons. By the Deed of Mortification, the free proceeds of a sum of £500 sterling—about £20 sterling—were appointed to be paid to a student to be nominated by them, and who should enjoy the said Bursary for the term of three years while prosecuting his studies at the Glasgow University, with power to the Patrons to determine, in every case, whether the Bursary should be granted for a longer or shorter period than three years, but in no instance is it to be granted for a longer period than four years to the same student. No restriction is placed upon the student as to his profession or calling. Applicants must be connected with Kintyre, and be entering the University for the first time. When a vacancy occurs application should be lodged with the Honorary Secretary of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow, on or before 10th June.

Bursar—Walter M. MacCulloch, 1901.

THE KINTYRE (ALEXANDER LOVE) BURSARY (*Any Faculty*).—This Bursary was founded in 1890 by the family of the late Alexander Love of Campbeltown. It consists of the free proceeds of a sum of £300 sterling—about £11—and is administered by the Office-bearers of the Kintyre Club. The Bursar must be a native or the son of a native of Kintyre, or actually resident there, and entering upon his first session at the University. His circumstances must be such as to render aid important. The period of tenure is not to exceed four years. When a vacancy occurs application should be made to the Hon. Sec. of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow, on or before 31st May.

Bursar—[1] Kenneth Stewart, 1899.

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[1] Vacant through lapse of time.

LAING BURSARY OR BURSARIES (*Arts*).—The late Alexander Laing, LL.D., some time Professor of Mathematics in Anderson's College, Glasgow, who died in 1882, bequeathed to trustees the sum of £500 to found one or two Bursaries in the Faculty of Arts. The trustees by a deed dated 26th July, 1883, conveyed to the Senate the sum of £500 of the preference 4 per cent. stock of the Glasgow and South-Western Railway Company, under certain conditions and regulations. The foundation is for providing, in the option of the Senate, one Bursary of £20, or two of £10 each. The Bursary is open to competition to all students entering on their first session in the Faculty of Arts (a preference being given, *cæteris paribus*, to natives of Brechin). The period of tenure is three years. Should the Bursary become vacant otherwise than by lapse of time, the income of the fund during the vacancy is to be added to capital.

Bursar—John C. Bell, 1902.

JAMES LAING BURSARIES (*Arts*).—Founded in 1892, under the Trust Disposition and Settlement of Mr. James Laing, Writer, Denny. So far as the funds admit, the Trustee appoints annually to two Bursaries, each of the annual value of £25, and tenable for four years. They are open to candidates (male and female) who have been educated for at least three years in any school or schools in the County (including the Burgh) of Stirling, and who are entering upon their first or second year of study in the University of Glasgow. Applications with certificates of qualification and good conduct from the teacher or teachers under whom candidates have been educated, should be lodged with Mr. William Jenkins, Writer, Denny, not later than 1st September. The names of candidates who are found qualified will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries. Failing candidates qualified as above, the Bursaries are open to competition to students of the first or second year from any part of Scotland. (Two vacancies.)

Bursars—[1] Peter Marshall, 1899; [1] David K. Chalmers, 1899; James Burns, 1900; John B. Stephen, 1900; Mary C. Biggar, 1901; Thomas Baxter, 1901; Hugh D. Sempill, 1902; Robert Jenkins, 1902.

LAMB BURSARY (*Arts or Theology*).—Founded in 1863 by the late Rev. Dr. William Lamb, minister of Carmichael, and appropriated to a student in Arts or Divinity. Bursar appointed by the Minister and Kirk Session of Carmichael. The preference to applicants in the parish of Carmichael or Pettinain, and the restriction to applicants from the Presbytery of Lanark, were cancelled by Ordinance No. 57 of the Universities Commission (1889). Value, about £12 per annum.

Bursar—Andrew Donald, 1901.

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[1] Vacant through lapse of time.

LANFINE BURSARIES (*Arts*).—By the will of the late Miss Martha Brown of Lanfine a sum of £5000 was bequeathed in 1902 to this University, "to be applied in payment of Bursaries tenable for not more than four years, of not less than £25 and not exceeding £40 each per annum, to be held by students who have passed a competitive examination in classes connected with the Faculty of Arts under such conditions as the Principal and Senatus of Glasgow may from time to time prescribe, the said Bursaries to be called the Lanfine Bursaries."

The following regulations were adopted by the Senate on 19th February, 1903:—

1. There shall be six bursaries, each of the annual value of £25, and each tenable for two years.

2. They shall be held by students of either sex who, having passed the full Preliminary Examination in Arts, are pursuing a course for graduation with Honours.

3. Three bursaries shall be awarded annually in the following alternating order:—In April, 1904, and thereafter biennially, one bursary in each of the following Groups of Honours, viz. Mental Philosophy, Modern Languages, English; in April, 1905, and thereafter biennially, one bursary in each of the following Groups of Honours, viz. Economic Science, History, Semitic Languages.

4. (*a*) Candidates for the bursary in Mental Philosophy must be attending the ordinary class in Logic or in Moral Philosophy, and the bursary shall be awarded to the candidate who, in the year of competition, is highest in the honour list of the Ordinary Logic Class at the first vacancy, of the Ordinary Moral Philosophy Class at the second vacancy, and so on alternately.

(*b*) Candidates for the bursary in Modern Languages must be attending the ordinary class in French or in German, and the Bursary shall be awarded to the candidate who, in the year of competition, is highest in the honour list of the Ordinary French Class at the first vacancy, of the Ordinary German Class at the second vacancy, and so on alternately.

(*c*) Candidates for the bursaries in English, Economic Science, History, and Semitic Languages, must be attending the ordinary classes in English, Political Economy, History, and Hebrew respectively, and the bursary in each case shall be awarded to the candidate who, in the year of competition, is highest in the honour list of the class which, as a candidate, he is required to attend.

5. The last moiety of each bursary shall not be paid to the bursar until he has obtained the Degree of Master of Arts with Honours in the Group in connection with which he holds his bursary.

6. If in any year bursaries allocated to any of the above Groups are not awarded, such bursaries shall, in the succeeding year, be

open to competition in the Groups of (a) Classics and (b) Mathematics and Natural Philosophy, and the award shall be made on the same principles as in the case of the bursaries in Mental Philosophy and Modern Languages.

LEADBETTER BURSARY (*Arts*).—This Bursary was founded in 1855 by Mr. John Leadbetter, merchant, Glasgow. It was made tenable for four years, and the classes to be attended by the Bursar in each of the four years were prescribed. A preference was given to boys who had attended the five years' Classical Course of the High School of Glasgow. Patrons—The Lord Provost and Magistrates. Ordinance No. 88 of the Universities Commission (1889) empowers the Patrons to present to the Bursary any person who has completed the five years' Classical course of the High School of Glasgow, whom failing, any person, without restriction as to parentage, who has received a similar classical education elsewhere. The Bursar must attend the Latin and Greek classes in the University during at least one year, and thereafter continue a course of study in the University necessary for the Degree of Master of Arts. The Bursary is tenable for four years, but if the holder graduate at the end of three years he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

Bursar—William Barclay, 1902.

ARCHBISHOP LEIGHTON BURSARY (*Arts and Theology alternately*).—Robert Leighton, Archbishop of Glasgow, founded in 1681 two Bursaries, which were tenable for four years in Philosophy, and two or three years in Divinity. By Ordinance No. 86 of the Universities Commissioners (1889), the two Bursaries were combined into one of the annual value of £18, to be called the Archbishop Leighton Bursary. An appointment is made of a Bursar in the Faculty of Arts, and at the end of his period of tenure an appointment in the Faculty of Divinity, and so on alternately, the period of tenure in each case being three years, and a person who has held the Bursary in Arts being eligible for appointment also in Divinity. The appointment in 1901 was in Arts. The provisions of Ordinance No. 57 apply to this Bursary. When a vacancy occurs, two students are nominated by the Town Council, and examined by the Senate, who prefer the best scholar. Applications must be lodged with the Town Clerk, City Chambers, on or before 1st September.

Bursar—William R. Campbell, 1901.

John Leyden Bursary (*Arts*).—Founded in 1879 by the Glasgow Border Counties Association in memory of John Leyden, poet and scholar. The Fund consists of the sum of £429 3s. 8d. raised by subscription. The Bursary is open to free competition under the same regulations as the competition Bursaries in the University. Tenable for three years. The holder to pass through the Arts course, and at the termination thereof to take the Degree of M.A.

Bursar—William M'Adam, 1902.

James Lochhead Bursary (*Arts*).—Founded in 1886 in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £500 for that purpose, in memory of her brother, who died in Ohio. A preference is given to students of the name of Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. The Bursary is tenable for three years in the Faculty of Arts.

Bursar—[1] James M'Fadyen, 1900.

Lochhead and Mitchell Bursaries (*Arts*).—Two in number and of equal value, founded in 1886, in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £2,000 (free of legacy duty) for that purpose. The present annual value is £33 to each bursar. A preference is given to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. They are tenable for four years in the Faculty of Arts. (One vacancy.)

Bursar—John Miller, 1900.

Logan Bursaries (*One in Theology and One in Medicine*).—Two in number, one in Divinity and one in Medicine, founded in 1863, by Mrs. Logan, widow of Mr. William Logan, tinsmith in Glasgow. The Bursary in the Faculty of Divinity is tenable for three years, and the one in the Faculty of Medicine for four years. The preference to the names Logan and Johnstone was cancelled by Ordinance No. 57 of the Universities Commission (1889). The value of each is £17 per annum. Appointment by the Senate.

Bursar in Medicine—Robert Donald, 1901.
Bursar in Theology—[1] John Gilmour, M.A., 1900.

Lorimer Bursaries (*Four in Theology, Four in Medicine, and Eight in Arts*).—By Trust Disposition and Settlement of date 17th October, 1872, the late Mr. John Lorimer, merchant in Glasgow, directed his Trustees to make over to the Principal and Professors of the University of Glasgow, the residue of his estate, amounting to the sum of £8,594 5s. 5½d., the annual proceeds of £5,000 thereof to be applied in payment of Bursaries of an amount not exceeding £50 each, and tenable for three years. One Bursary at least is to be payable to a matriculated student of each of the following subjects :—1, Theology ; 2, Medicine ; 3, Philosophy ; 4, Mathematics ; and the proceeds of the remainder of such residue are to be applied in payment of smaller Bursaries tenable by students of the above-mentioned subjects.

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[1] Vacant through lapse of time.

The following regulations have been adopted by the Senate :—

1. The Bursaries shall be sixteen in number—namely, eight of the annual value of £25, and eight of the annual value of £19, and shall be tenable for three years.

2. Four Bursaries—viz., two at £25, and two at £19 shall be held by Students of Theology, and shall be open to competition to students entering the Divinity Hall. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations for the degree of B.D.

3. Four Bursaries—viz., two at £25, and two at £19, shall be held by Students of Medicine, and shall be open to competition to students who have attended the first session of their professional study in the University of Glasgow. The subjects of examination, which shall be prescribed by the Faculty of Medicine, are Elementary Anatomy, Elementary Chemistry, and Botany. The examinations are held at the same times as the Autumn Professional Examinations in these subjects, and, in the case of Chemistry and Botany, on the same papers. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed his Third Professional Examination for the degree of M.B.

4. Four Bursaries—viz., two at £25, and two at £19, shall be open for competition to students who, having passed their whole Preliminary Examination, are entering on their second session of attendance, and who, not having attended the classes of Logic, Moral Philosophy, and English Literature, propose to attend these classes in the following sessions. Candidates shall be examined in such subjects in English Literature and Logic as may be fixed by the Senate. The Examiners shall be the Professors of English Literature, Logic, and Moral Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment, he must enter one or more of the classes of English Literature, Logic, and Moral Philosophy, and in the course of his tenure of his Bursary must attend, besides the above classes, one or more of the Honours classes in English Literature, Logic, or Moral Philosophy. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed examinations in Logic, Moral Philosophy, and English for graduation in Arts.

5. Four Bursaries—viz., two at £25, and two at £19, shall be open for competition to students of either sex who, having passed the whole

Preliminary Examination, are entering on their second session of attendance. Candidates shall be examined in such subjects in Mathematics as may be fixed by the Senate. The Examiners shall be the Professors of Mathematics and Natural Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment he must enter the class of Mathematics, and prosecute the course of study required for passing the Honours examinations in Mathematics and Natural Philosophy for a Degree in Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations in Mathematics and Natural Philosophy for graduation in Arts or the First Science Examination in these subjects for graduation in Science.

In session 1903-4 four of the above £25 Bursaries will be open to competition—viz., one in Theology, one in Medicine, one in Philosophy, and one in Mathematics. The Bursaries in Theology will be decided by the results in the general competition for Bursaries in Theology. The competition for the Bursaries in Medicine will be held on 28th and 29th September, 1903. For the Bursaries in Philosophy the subjects of examination will be those prescribed for the John Ferguson Jaffrey Bursary (see p. 303), and the examination will take place along with the Autumn examinations for M.A. in English and Logic. The examination for the Bursaries in Mathematics will take place along with the Arts and Science Preliminary Examination in Mathematics, but may embrace higher papers.

Bursars in Theology—[1] Duncan M'Arthur, 1900; A. S. Dunlop, M.A., 1901; Gordon Quig, 1902; Donald MacPherson, 1902.

Bursars in Medicine—[1] John Graham, 1900; John S. Dunn, 1901; Thomas M'Cririck, M.A., 1902.

Bursars in Arts—[1] Donald Carswell (Phil.), 1900; Thomas B. Morley (Math.), 1900; Charles Cullen (Phil.), 1901; William Miller (Math.), 1901; Albert F. L. Brayne (Phil.), 1902; John A. Falconer (Phil.), 1902; Thomas M. MacRobert (Math.), 1902; James Dunlop (Math.), 1902.

LUMSDEN BURSARY (*Theology*).—This Bursary was founded in 1850, by Mr. James Lumsden, stationer, Glasgow. Value, £15. It is given to a Divinity student of the first year, and may be held for four years. There is a preference to sons of members, or of deceased members of the Stationers' Company of Glasgow. The Patrons, viz., the Principal, the Professors of Divinity, Hebrew, and Church History, and the President of the Stationers' Company—have resolved that when no candidate with a preferential claim applies for the Bursary it shall be awarded in accordance with the results of the competition for Bursaries in Theology. (Vacant.)

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[1] Vacant through lapse of time.

Lusk Bursary (*Arts*).—Founded in 1876, in accordance with holograph settlement executed by Mr. Robert Lusk, merchant in Greenock, who bequeathed the sum of £1,000, reduced by legacy duty to £900, for "a Bursary in connection with the Glasgow University, to be given to the most successful student attending the preparatory course of studies in said University who may intend to follow out the ministry in connection with any of the Presbyterian bodies in Scotland," "and who may, on public examination or competition, be found to be best qualified and most deserving." The competition is open to first or second year's students in Arts. Tenable for three years, but may be continued for an additional year. Value, £30 per annum.

Bursar—Robert H. Napier, 1901.

Macarthur Bursary (*Medicine*).—Founded in 1881 by Miss Jean Macarthur, in memory of her uncle, John Macarthur, Doctor of Medicine in Glasgow. The Bursary consists of the annual proceeds of £500. The administration is vested in a Committee appointed annually by the Faculty of Physicians and Surgeons of Glasgow. The Bursary must be held by a student prosecuting the study of Medicine in the University of Glasgow. Under the rules laid down by the Committee, applicants must have completed three winter sessions of medical study, and not have entered on the fourth winter session. Preference will be given to applicants who have taken one or more First Class Certificates in the Medical Classes. The Bursary is tenable for two years.

Application to be made prior to 15th April, 1904, to Alexander Duncan, LL.D., Faculty Hall, 242 St. Vincent Street, Glasgow, who will furnish forms of application.

Bursar—Carl Hamilton Browning, 1902.

M'Crie Bursaries (*Arts*).—These Bursaries were founded by the Rev. James M'Crie, D.D., of Dangart, Senior Minister of the U.P. Congregation of Old Meldrum, in the County of Aberdeen. They are of the annual value of £25, tenable for four years, provided the holder passes a prescribed examination at the commencement of each session and complies with the other conditions mentioned in the Deed of Foundation. The Bursary fund consists of certain lands in the parish of Colmonell and other heritable and movable property mortified for the purpose and vested in the Magistrates and Town Council of Ayr. The candidates must have been born in the parishes of Ballantrae, Colmonell, Barr, Girvan, Ayr, Old Meldrum, Tarves, Daviot or Bourtie, or in the City of Aberdeen, or in the Town of Ayr. The students must also be the sons either of mechanics, or of cottars, or of farmers not paying more than £100 of yearly rent, or of ministers not having more than £130 of yearly income, without respect to religious sect or denomination. Candidates of the names of M'Crie, Forsyth, M'Cracken, or Spark, are to have a preference if otherwise deserving. The Bursaries may be held along with other Bursaries. Forms of application may be obtained from Mr. A. G. Young, Town Clerk, Ayr, and should be lodged with him on or before the first day of September in each year in which a vacancy occurs. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for students of the first year. (Two vacancies.)

Bursars—William White, 1901 ; John M. Hunter, 1901.

JAMES MELVILLE M'CULLOCH BURSARY (*Arts*).—Founded in 1885 in memory of the late Rev. James Melville M'Culloch, D.D., minister of the West Parish, Greenock. It consists of the free annual income of about £400. It is open to competition to students of the first year in the Faculty of Arts, who shall have been educated for not less than three years at any school or schools in Greenock. Tenable for four years, the Bursar attending the qualifying course for the Degree in Arts. The second moiety of the fourth year's Burse shall not be paid until the Bursar shall have passed all the examinations required for the Degree of Master of Arts. In the event of a vacancy occurring otherwise than by lapse of time, the Senate may appoint a student of the same standing qualified in like manner, or may arrange a new competition.

Bursar—James S. MacGillivray, 1902.

MACDONALD BURSARIES (*Arts, Law, or Medicine*).—Two in number, founded in 1882, in terms of the Trust Disposition and Settlement of Mr. Alexander Macdonald, M.P., who bequeathed to the University £1,000 for the purpose of assisting students in a course of purely secular education. The Bursaries are equal in value and tenable for four years in Arts, Law, or Medicine. Only miners under the age of twenty-one years, who have worked underground in any part of the United Kingdom, are eligible as candidates. The Bursaries are awarded in accordance with the results of an examination in general knowledge, particularly in writing, arithmetic, geography, grammar, and history. (One vacancy.)

Bursar—James Dunbar, 1901.

JOHN AND ISABELLA MACDOUGALL BURSARIES (*Arts*).—Founded in 1884, under the Trust Disposition and Deed of Settlement of Miss Isabella Macdougall, Perth. Miss Macdougall directed her Trustees to devote the residue of her means and estate to the foundation and endowment of one or more Bursaries, payable to students born in the county or city of Perth, attending the classes in the Faculty of Arts, in the Universities of Edinburgh, Glasgow, and St. Andrews.

The Bursaries are of the annual value of about £33, and are tenable for a period not exceeding three years. The Trustees are the Patrons. The candidates, who may be of any religious denomination, must undergo an examination by examiners appointed by the trustees. The Bursaries are open to students who are either (1) about to enter on their first session, and who shall pass the Preliminary Examination in Arts, or (2) who have already attended the junior classes for one session. A vacancy occurring otherwise than by lapse of time may be filled up by the appointment, after examination, of a student of equal standing with the retiring Bursar. It is not competent for any person to hold any of these Bursaries along with any other Bursary or appointment yielding to him an annual income of fifty pounds or upwards. The Trustees are the following ministers in Perth, viz. :—The Rev. Wm. G. H. Carmichael, East Church Parish ; the Rev. F. H. Martin, St. Paul's Church Parish ; the Rev. Peter R. Landreth, West Church Parish ; the Rev. William Main, Middle Church Parish ; and their successors in office for the time being, Mr. Thomas Soutar, retired banker, and Mr. Wm. Cochrane Young, solicitor in Perth. Candidates are requested to send in their names and addresses to Mr. Young, 9 St. John Street, Perth, on or before 1st September. (One vacancy.)

Bursars—William S. Stewart, 1901 ; John Rankine, 1902 ; Alexander Silver, 1902.

Malcolm M'Ewen Bursary (*Arts or Science*).—Mr. William M'Ewen, tobacco manufacturer, Glasgow, who died on 16th December, 1878, by his Trust Disposition and Settlement dated 28th November, 1878, directed his trustees, Mr. James Boyd, writer, Glasgow, and others, to devote a sum of £500 to the foundation of a Bursary in the University of Glasgow, to be called the "Malcolm M'Ewen Bursary," in memory of his brother, Mr. Malcolm M'Ewen, who died on 16th January, 1878. The Bursary was founded in 1884. After consultation with the Senate, the Trustees resolved that the regulations for the Bursary should be as follows :—The Bursary is open to competition at the annual Bursary Examination to all students entering on the first session of attendance at the University, is awarded by the Senate in accordance with the results of that examination, and is tenable for four years. The Bursar on his appointment must elect to follow either the course of study qualifying for the Degree of M.A., or the course of study qualifying for the Degree of B.Sc., and must attend at least two classes each winter session. The Bursary is payable by equal moieties on the second day of February, and at the close of the winter session, but the second moiety of the fourth year's Burse shall not be paid until the Bursar shall have passed all the examinations for the Degree appropriate to the course of study chosen by him at the beginning of his tenure of the Bursary. A vacancy occurring otherwise than by lapse of time may, in the discretion of the Trustees, either be filled up at the first term thereafter, or not till the usual term at which the competition for the Bursary would, in ordinary course, have fallen due, and, in the latter event, accumulations from this source are to be added to the capital fund.

Bursar—David Arthur, 1901.

James Macfarlane Bursary (*Theology*).—Miss Helen Macfarlane, who died on 12th March, 1886, by a Codicil dated 15th August, 1882, to her Trust Disposition and Settlement, directed her Trustees to hand over to the Senate the Portrait of her late brother, Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and the sum of £1,000 free of legacy duty for the foundation of a Bursary in the Faculty of Theology, in memory of her brother, the Rev. Dr. James Macfarlane, minister of Duddingston. Preference to the name Macfarlane. The competition is open to Divinity students of the first year, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any four subjects taken out of at least two departments for graduation in Arts. The Bursary is tenable for three years, but in the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

Bursar—John Chambers, 1901.

John Macfarlane Bursary (*Medicine*).—Founded in 1874 by the brothers and sister of the late Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and to his memory. Patrons—The Faculty of Medicine. It is of £40 annual value, and it is tenable for three years. The competition is open to students who have attended the first session of their professional study in the University of Glasgow. The subjects of Examination to be prescribed by the Patrons; and the success of the candidates in the examination in General Education will form an essential element of the decision. Any surplus which may accumulate from vacancies or otherwise, is to be applied to establish a "Macfarlane Prize" in the Class of Practice of Medicine. The subjects of Examination for this Bursary are Elementary Anatomy, Elementary Chemistry, and Botany. The examinations are held at the same times as the Autumn Professional Examinations in these subjects, and in the case of Chemistry and Botany on the same papers.

Bursar—Thomas L. Craig, 1902.

Robert Macfarlane Bursaries.—By a Mutual Trust Disposition and Settlement of date 7th January, 1888, Miss Mary Ann and Miss Margaret Macfarlane directed their Trustees to make over to the Senate of the University of Glasgow a sum of £3,000 for the foundation of Bursaries in memory of their brother, Robert Macfarlane, Writer, Paisley, out of the estate bequeathed by him to them. The Bursaries are to be given to deserving students at the University of Glasgow looking forward to being lawyers, specially including students in the Law Classes, preference being given to young men connected with Paisley.

MacGrouther Bursaries (*Arts*).—Two in number, founded in 1872, the one by Mrs. Sophia Susan MacGrouther, widow of Mr. James MacGrouther of Leigham Court Road, Streatham, Surrey, who mortified in favour of certain trustees the sum of £500 ; the other by the Misses Mary and Jane MacGrouther, residing in Glasgow, his sisters, who also mortified in favour of the same trustees the sum of £500, for the purposes of the foundation, and in memory of, and in fulfilment of the intentions of, the said James MacGrouther. The Senate are the Patrons. The Bursaries are open to competition to students entering the Faculty of Arts for the first time, and are awarded to students who, having passed the Arts Preliminary, have gained the highest marks in Mathematics in the Bursary examination, and have not obtained a bursary in the general competition. They are tenable for four years, subject in each case to the condition that the Bursar shall pass the examinations required of students proceeding to the Degree of M.A. An appointment to the £20 Bursary will be made in October, 1902.

Bursars—[1] James W. Buchan, £20, 1899 ; [1] James H. Cockburn, £15, 1899.

M'Kechnie Bursaries (*Any Faculty*).—Two in number, founded by the Trust Disposition and Settlement of the late Thomas M'Kechnie, merchant in Girvan, who bequeathed for that purpose the sum of £2,000 to the Minister of the Established Church in Girvan, the Magistrates of Girvan, and others, and appointed them patrons of the Bursaries. The Patrons, in nominating and presenting students to the Bursaries, are instructed to prefer, in the first place, such as are of the founder's kindred ; secondly, such as are of the name of M'Kechnie ; and thirdly, such as were born in the parish of Girvan, provided that such students are properly qualified by their previous education for entering the University of Glasgow. Failing candidates qualified as above, the Bursaries are to be awarded to those who shall be found best qualified and deserving. The Bursaries are tenable for four years. When a vacancy occurs application should be made to Messrs. W. and D. Andrews, solicitors, Girvan, early in August.

Bursars—[1] Charles Nelson (Arts), 1899 ; [1] John M'Cartney (Med.) 1899.

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[1] Vacant through lapse of time.

MACKINTOSH MENTAL SCIENCE BURSARY (*Medicine*).—Founded in 1889 by Dr. Donald Mackintosh of London, in memory of his brother, Dr. Alexander Mackintosh, for many years superintendent of the Royal Lunatic Asylum, Gartnavel. Value, about £31. Tenable for one year. The competition is open to matriculated students of medicine who have attended the Lectures on Insanity in the University, and will be awarded in accordance with the results of an examination conducted in June by the Professor of Practice of Medicine and the Lecturer on Insanity acting conjointly. The holder of the Bursary shall, while holding it, devote special attention to the practical study of Insanity to the satisfaction of the Faculty of Medicine.

Bursars—James R. S. Anderson and Peter L. Sutherland, 1902.

M'KISSACK BURSARY (*Medicine, Arts, or Divinity*).—Founded in 1900 in terms of the Trust Disposition and Settlement of Mrs. Jane M'Kissack, Nairn, who bequeathed £750 for that purpose, in memory of her husband, Charles M'Kissack. The Patrons of the Bursary are the Provost and Bailies and the Ministers of the Presbyterian and Congregational Churches in the Royal Burgh of Nairn. The Bursary is tenable for four years, and is to be given to a medical student prosecuting his studies at any College, University, or Training Institute approved by the Patrons, in preparation for Christian mission work among the Jews. Failing a student in medicine, the Bursary may be given to a student in Arts or Divinity having the same object in view. Applicants must be of British nationality and not under seventeen years of age at the date of presentation. Preference, *cæteris paribus*, will be given to candidates of the name of M'Kissack, or natives of the counties of Elgin and Nairn, or candidates who have at any time resided for twelve consecutive months in these counties. The next presentation to the bursary will be made in September, 1905. For further particulars apply to Messrs. Lamb & Co., solicitors, Nairn.

Bursar—Herbert C. Orrin, 1901.

MACLEAN TRUST BURSARIES (*Arts*).—Under the scheme for the administration of the Trust of the late Colonel Alexander Maclean, approved of by the Court of Session on 18th July, 1895, the Governors are authorised to apply a portion of the revenue of the Trust in payment of Bursaries of the yearly value of not less than £25 each, tenable for four years at any Scottish University. The Bursaries are open to students of either sex of the name of Maclean entering on the Arts curriculum, and are awarded by competitive Examination in such manner as the Governors shall determine. The Bursars must regularly attend at least two classes each winter session in the curriculum for a degree in the Faculty of Arts.

But any Bursar who has held his Bursary throughout a three years' curriculum in the Faculty of Arts, and taken a degree in that Faculty, may continue to hold it during the fourth year in any other Faculty. The Governors are the Lord Provost and Magistrates of the City of Glasgow. Forms of application can be received in the month of April each year, from the Town-Clerk, Glasgow, with whom applications must be lodged. (Three vacancies.)

Bursars—Donald Maclean, 1899; Margaret A. M. Maclean, 1899; Edith Louise Maclean, 1900.

MAITLAND CLUB BURSARY.—In 1888 Dr. W. H. Hill and Mr. J. Wyllie Guild, the then surviving members of Council of the Maitland Club, disposed of the remainder of the stock of the Maitland Club publications, and in pursuance of resolutions passed at meetings of the Council held on 3rd and 17th August, 1870, handed over the proceeds (£140) to the Senate for Bursary purposes. The free income is to be annually bestowed without any competitive examination on such student as the Senate may consider deserving. No appointment will be made until the free annual income amounts to £5.

MARSHALL BURSARIES (*One in Theology and One in Medicine*).—Mrs. Barbara Lauder or Marshall, relict of Alexander Marshall, wholesale stationer, Bell Street, Glasgow, by her Will dated 8th December, 1874, bequeathed to the Senatus of Glasgow University the sum of £1,000, under deduction of legacy duty, to found two Bursaries of equal value, one in Divinity and the other in Medicine. Tenable for four years. Preference to the name of Marshall, but provided "that the Principal and the Professors shall nominate and appoint such students only to the said Bursaries as they shall find, on such examination as they may appoint, to be properly qualified for entering upon the study of Divinity and Medicine at the said University." Present value, £15 per annum to each Bursar.

Bursar in Medicine—William L. Kirkwood, 1900.

Bursar in Theology—Neil MacPhail, 1901.

MARSHALL TRUST BURSARIES (*Arts*).—Under scheme 198, section 29, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 17th March, 1888, the Governors of the Marshall Trust are instructed to apply (1) a sum not exceeding £300 per annum in providing University Bursaries. These Bursaries are awarded by competitive examination among pupils of either sex who have held free scholarships or school bursaries under the scheme, and pupils of either sex who are resident and attending public or State-aided schools in Lanarkshire or Stirlingshire, whose parents or guardians are of the class specified in section 25 of the scheme. The Governors may apply (2) a further sum of £300 per annum in providing similar Bursaries to be awarded solely to pupils who have held free scholarships under the scheme, who shall have competed for but failed to obtain any of the first mentioned Bursaries, but on condition that such free scholars shall pass the examination prescribed by the Governors. Each Bursary is £30 per annum, and is tenable for not more than five years. Forms of application may be obtained from the Secretary of the Trust—William Mitchell, LL.D., 134 Wellington Street, Glasgow—and should be lodged with him on or before the 1st day of September in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for students of the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary in the general competition. Under (1) there are two vacancies, and under (2) there are also two vacancies.

Bursars—[1] Archibald Lang, 1898; [1] James P. Mackay, 1898; [1] James Moyes, 1898; [1] Matthew Stewart, 1898; William Manson, 1899; Robert Hamilton, 1899; John M'Lean, 1899; John M'Bryde, 1899; Edgar Barnes, 1900; Thomas L. Douglas, 1900; Neil M'Arthur, 1900; Margarette C. Paterson, 1900; James Ballantyne, 1901; George D. C. Stokes, 1901; John J. Dempster, 1901; Thomas Beaumont, 1901; James R. Campbell, 1902; Grace Oliphant, 1902; Neil M'Caig, 1902; David Taylor, 1902.

MENZIES BURSARIES (*Arts*).—The late Mr. James Menzies, of Glasgow, by his Will, dated 3rd November, 1837, left a sum of money to establish four Bursaries at either of the Universities of Edinburgh, Glasgow, or St. Andrews, tenable for four years, one to be given each year. The value of each Bursary is £45 per annum, but varies at the discretion of the Patrons. The Patrons are Sir Robert Menzies, Bart., of Menzies, and the Parish ministers of Dull, Weem, and Fortingall. In the first place, the kindred of the Testator; secondly, persons of the name of Menzies; thirdly, those born on the Menzies estates, will be preferred—provided always that they shall be found properly qualified by previous education; and failing these, the Patrons can present such as shall be found best qualified after due examination. The following are the subjects of examination:—*Latin*—Translation, (1) English into Latin; (2) Latin into English, with grammatical questions and exercises. *Greek*—Translation, Greek into English, with grammatical questions and exercises. *English*—(1) The growth, structure, and grammar of the language; (2) The History of English Literature; (3) A short essay on a prescribed subject. *Mathematics*—(1) Arithmetic, general; (2) Algebra, up to and including Quadratic Equations; (3) Geometry, Euclid, the first six books, and the first twenty-one propositions of the eleventh book, with deductions; (4) Trigonometry, up to and including the solution of triangles. Bursars to attend in some one of the above Universities the classes in their regular order for the M.A. Degree. Candidates are requested to send their names to Mr. Thomas Yool, The Menzies Estates Office, Aberfeldy, on or before 18th September. (One vacancy.)

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[1] Vacant through lapse of time.

Bursars—[1] John M'Laren, 1899; J. C. H. Macnair, 1900; James Menzies, 1901; Alexander MacIntosh, 1902.

MERCHANTS' HOUSE BURSARIES (*One in Arts, One in Law, and Two in Medicine*).—Founded in 1879 by the Merchants' House of Glasgow. The Bursaries are of the annual value of £25 each, and are four in number—viz., two in Medicine, one in Arts, which may also be held in Engineering and Mechanics, and one in Law, tenable by students attending the requisite classes in the above Faculties, with a preference to the sons of matriculated members of the Merchants' House, and such others as the Lord Dean and Directors may deem deserving. 1. The Bursaries in Medicine are tenable for four years. Candidates must be entering on their first winter session of attendance on the ordinary curriculum for Medical Students. 2. The Bursary in Arts, or in Engineering and Mechanics, is tenable for four years. Candidates must be entering on their first session of study, and must attend each session two at least of the classes in the Arts curriculum, including, at the option of the candidate, the class of Civil Engineering and Mechanics. 3. The Bursary in Law is tenable for three years. Candidates must be entering on their first session of attendance on the classes in the Faculty of Law, and must give regular attendance for the three years on classes in that Faculty. The subjects of examination for the Bursaries in Medicine are the subjects of the Medical Preliminary Examination, and for the Bursaries in Arts and Law are those prescribed for the General Bursary Competition, special importance being given in the examination for the Arts Bursary to the subject of Mathematics. When a vacancy occurs, applications should be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st September.

Bursar in Arts—Murray Macgregor, 1902.

Bursar in Law—George Stewart, M.A., 1902.

Bursars in Medicine—[1] John Pearson, 1899; Alexander C. Russell, 1900.

METCALFE BURSARIES (*Science*).—Founded by the late Miss Sarah Metcalfe, Glasgow, who, by her Deed of Settlement and Codicils, dated respectively 8th August, 30th September, and 7th October, 1853, bequeathed, subject to the liferent of her brother, Mr. William Metcalfe, certain properties in Glasgow, "for encouraging poor students in prosecuting the studies of Mathematics, Practical Astronomy, Chemistry, and Civil Engineering." Mr. Metcalfe died on 25th January, 1869, and by resolution of date 14th April, 1870, the Senate instituted, besides a Metcalfe Fellowship of £100 annual value (for which see Index), at least two Metcalfe Bursaries or Scholarships, each of the annual value of £25, and tenable for two years, subject to the condition that the scholar attend the four classes of Civil Engineering, Senior Mathematics, Practical Astronomy and Chemistry; two at least of these classes to be taken each year. The scholars to be appointed by examination in Pure Mathematics, including the elements of Plane Trigonometry, of Mechanics, and of Theoretical Astronomy, from among matriculated students entering the Intermediate Honours class of Mathematics, or the class of Chemistry. (Two vacancies.)

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[1] Vacant through lapse of time.

Bursars—[1] Robert Irvine, 1901; [1]Neil J. Maclean, 1901; Samuel N. Forrest, 1902; John F. Tinto, 1902.

MITCHELL (See Lochhead and Mitchell, p. 308).

MONTEITH BURSARIES (*Arts*).—Founded in 1869 by Mr. James Monteith of 38 Duke Street, St. James's, London. Three in number, each of the annual value of about £14, and tenable for three years. They are open for competition to all matriculated students of the Faculty of Arts, being natives of Scotland, and sons of Scottish parents, and may be held along with another Bursary. The examination to be in French and German in alternate years. Occasionally an extra Bursary will be given to the second-best candidate, of the same value as the others, but tenable only for one year. At the commencement of session 1903-4 a regular three years' Bursary will be competed for, the examination being in French.

Bursars—John D. Anderson (French), 1901; William Scott (German), 1902.

JOHN MONTEITH BURSARIES (*Medicine*).—Founded in 1884 by Mrs. Helen Monteith, Greenbank, Dowanhill Gardens, Glasgow, in memory of her husband, the late John Monteith. Mrs. Monteith assigned the sum of £1,000 to Dr. John Gray M'Kendrick, Professor of the Institutes of Medicine, Dr. James Duncan M'Laren, Fellow of the Faculty of Physicians and Surgeons in Glasgow, the late James Graham, LL.D., writer, Glasgow, and Robert Monteith, her adopted son, as trustees, in the first instance, for the administration of the fund. The annual income after payment of the expenses of administration is to be awarded as two Bursaries to students who have attended the first and second sessions of their professional studies in the University of Glasgow with a view to Graduation in Medicine in that University. The Bursaries are tenable for two years. One Bursary is awarded annually in the month of November, and is given to the candidate who gains the highest number of marks in the subjects of Anatomy and Physiology at the Professional Examinations in these subjects held during the previous year (*i.e.* the April and October preceding said month of November). The founder has directed that it be represented to the holders of the Bursaries that they should feel themselves in honour bound after graduation to render professional assistance to the poor as much as may lie in their power.

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[1] Vacant through lapse of time.

Bursars—[1] William D. H. Stevenson, M.A., 1901; Hugh H. Fulton, 1902.

MORGAN BURSARIES (*Arts and Theology*).—Mr. John Morgan, West India Merchant, who died at Springfield House, Bishopbriggs, on 4th May, 1894, in his Trust Disposition and Settlement directed the Merchants' House to pay over half-yearly to the Presbytery of Glasgow one third of the net revenue of his estate to be applied in providing Bursaries for students in the University of Glasgow intending to become ministers of the Church of Scotland, one third to students in Divinity and two thirds to students in Arts. The students in Arts must be under twenty years of age, and must have passed the Preliminary Examination. The appointments are made for one year only, but may be renewed from year to year for one or more years. No Morgan Bursary shall exceed £20 a year. The holder of another Bursary of £20 or upwards cannot be appointed to a Morgan Bursary, but the holder of a Bursary of less than £20 may be appointed to a Morgan Bursary of such value that the two Bursaries together shall not exceed £20. Further particulars and schedules to be filled up by applicants may be obtained from the Presbytery Clerk.

MUIR BURSARIES (*Two in Arts or Science, Two in Science, and One in Theology*).—Founded in 1880, in terms of the Trust Disposition and Settlement and Codicil thereto of the late Mr. Matthew A. Muir, merchant in Glasgow, who bequeathed to the Senatus Academicus of Glasgow University, free of legacy duty, the sum of £1,000 for providing a Bursary in connection with the Chair of Divinity, to be awarded to a student of Divinity during the last three years of his curriculum; a sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Mathematics, to be awarded to advanced students in Mathematics, the period of tenure to be fixed by the Senate; and a further sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Civil Engineering and Mechanics, to be awarded to advanced students of Engineering and Mechanics, the period of tenure to be fixed by the Senate. Any of the Muir Bursaries in Mathematics and Civil Engineering may be held along with another Bursary.

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[1] Vacant through lapse of time.

The following rules and regulations have, in accordance with the provisions of the Deed, been sanctioned by Mr. Muir's trustees, and are to be observed in all time coming :—

1. *Muir Bursary in Divinity.*—Candidates must be entering on their first session in Theology in the University, and the appointment to the Bursary shall be determined by the result of the annual competitive examination for Bursaries in Theology. The competition shall be open to candidates holding a Degree in Arts in any Scottish University, or who have passed their examinations in four subjects taken out of at least two departments for graduation in Arts. The Bursary shall be tenable for three years, but the second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations for the Degree of Bachelor of Divinity.

2. *Muir Bursaries in Mathematics.*—Two in number, of which the Junior Bursary shall be tenable for two years, and the Senior Bursary for one year, the former being of half the annual value of the latter. The appointment shall be determined by the proficiency shown by the candidates in the earlier part of their Mathematical course, and the successful candidates shall prosecute the study of the Higher Mathematics during their tenure of the Bursaries. No candidate shall be allowed to hold both Bursaries at the same time. Should the Junior Bursary be resigned by the Bursar at the end of his first year of tenure, the Senate may make an appointment for the remainder of the period.

3. *Muir Bursaries in Civil Engineering and Mechanics.*—Two in number, and of equal value. The appointments shall be determined by the proficiency shown by the candidates in the earlier part of their Engineering course. The period of tenure for each Bursary shall be the session of attendance on the Senior Class of Civil Engineering and Mechanics (Class IV.). Should a vacancy occur by reason of non-attendance of a selected candidate, the Senate may make an appointment for the remainder of the period. No candidate shall be allowed to hold both Bursaries.

4. The Senate reserve the right to withhold the Bursary in any case in which a satisfactory standard has not been attained by any of the competitors.

5. Arrangements for carrying out these rules and regulations shall from time to time be made by the Senate, and notice thereof shall be published in the *University Calendar*.

Arrangements for Session 1903-4.—*Muir Bursaries in Mathematics.*—The appointment to the Junior Bursary, tenable during sessions 1904-5, 1905-6, shall be determined by the results of the written examinations passed in the course of the session 1903-4 by the public students of the Ordinary Class of Mathematics. The successful candidate shall, during session 1904-5, attend the Intermediate Honours Class, and during session 1905-6 the Advanced Honours Class of Mathematics. The appointment to the Senior Bursary, tenable during session 1904-5, shall be determined by the results of the written examinations passed in the course of the session 1903-4 by the public students of the Intermediate Honours Class. The successful candidate shall, during 1904-5, attend the Advanced Honours Mathematical class.

Muir Bursaries in Civil Engineering and Mechanics.—Candidates for the Bursaries tenable during session 1904-5 must be (*a*) students attending during session 1903-4 Engineering Class III. or the Class of Electrical Engineering, who are also attending or have in a previous session attended the Junior or the Senior Class of Engineering Drawing and Calculations, or (*b*) students attending during session 1903-4 the Junior or the Senior Class of Engineering Drawing and Calculations, who have in a previous session attended the Engineering Class II. or Class III. or Electrical Engineering. The appointment shall be made by consideration of merit shown during attendance on, and by examination in the subjects of, those classes. The successful candidates shall, during session 1904-5, attend the Senior Class of Civil Engineering and Mechanics (Class IV.).

Bursars in Mathematics.—Junior Bursar for session 1903-4, Thomas M. MacRobert, 1902; Junior Bursar for sessions 1903-4, 1904-5. Leonard J. Russell, 1903: Senior Bursar for session 1903-4, John Miller, 1903.

Bursars in Civil Engineering and Mechanics for session 1903-4 —Henry J. M. Cousens and Duncan J. Kerr, 1903.

Bursar in Theology.—[1] John T. Arnott, M.A., 1900.

WILLIAM MUIR DIVINITY BURSARIES (*Theology*).—Established in 1886 by the Governors of the Glasgow General Educational Endowments Board, under Section 35 of their Scheme. The Bursaries are two in number, each of £25 annual value. Candidates must have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University, and must lodge applications with Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, on or before the 15th day of October. The Bursaries are awarded in accordance with the results of the competition for Bursaries in Theology, and are tenable for two years. (One vacant.)

Bursar—James Young, B.A., 1902.

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[1] Vacant through lapse of time.

NOTMAN BURSARY (*Theology*).—By deed of Settlement dated 15th August, 1876, Mrs. Margaret Adam Notman or Napier of Hillhead, Glasgow, widow of Mr. William Napier, directed her executors to pay over to the Principal and Professors of the Glasgow College, the sum of £500 sterling for the purpose of founding a Bursary in the College, to be called the Notman Bursary, in memory of her father and brother. The Bursar to be a student of Divinity, who shall appear in public examination to be best qualified and deserving. Present value, £18 per annum.

Bursar—[1] Arthur P. S. Tulloch, M.A., 1900.

JAMES PATERSON BURSARY (*Arts*).—Founded in 1885 in commemoration of the completion, in 1879, of the fiftieth year of the existence of Adelaide Place Baptist Church, Glasgow, and of the Pastorate thereof of Dr. James Paterson during the same period. The sum subscribed for the purpose, amounting with interest to £619, was assigned and conveyed to the Senate in trust to be applied in all time coming to provide a Bursary in the Faculty of Arts to be called the James Paterson Bursary. The Bursary is tenable for four years, and is open to competition to any student of the first year in Arts who is a member of a Baptist Church, and who is entering upon his studies with a view to the ministry in the Baptist denomination. The Bursar during his tenure of the Bursary must be a member of Adelaide Place Baptist Church or of some other Baptist Church in Glasgow or neighbourhood. The Bursar must graduate in Arts, and before payment of the second moiety of the last year's Bursary must produce evidence that he has taken the degree, or that he has passed all the examinations necessary for graduation. On the Bursary falling vacant otherwise than by lapse of time, the Senate may appoint for the remainder of the term, or for the full period after competition. Before payment of the second moiety in each year the Bursar must produce a certificate of fitness for the ministry from a Committee of Adelaide Place Baptist Church, from the Baptist Union of Scotland, or some recognized Educational Institution of the Baptist Body.

Bursar—Thomas Stewart, 1900.

JAMES ALEXANDER PATERSON BURSARIES (*Arts and Medicine*).—Founded in 1892, under the Trust Disposition and Settlement of James Alexander Paterson (for many years a member of Shamrock Street United Presbyterian Church), who died at Glasgow on 31st January, 1889.

The Bursaries in Arts are tenable for three years. They are open to competition to students entering upon the first or second year of their attendance at the University, who purpose studying for the ministry in connection with the United Presbyterian Church, and who intend to qualify for and take, in the University of Glasgow, the degree of M.A. Each candidate before the competition must lodge with the Clerk of Senate, (1) a written declaration of his intention to comply with and observe these conditions, and (2) a certificate from the Chairman or Clerk of the Theological Committee of the United Presbyterian Church, bearing that the Candidate is recognized by that Church as an accepted student pursuing his studies with a view to the ministry therein. In October, 1903, three Bursaries of £35, £25, and £20 respectively will be offered for competition. The Examination is in Hebrew (Book of Ruth) and Greek (Acts of the Apostles).

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[1] Vacant through lapse of time.

The Bursaries in Medicine are tenable for four years. They are open to competition to students entering upon the first or second year of their medical curriculum at the University of Glasgow, who intend to qualify for and take, in the University of Glasgow, the degree of M.B. Each candidate must before the competition deliver to the Clerk of Senate a written declaration of such intention. The subjects of examination are Mathematics and Natural Philosophy, and the papers will be on the same standard as the papers in Mathematics and Dynamics for the Bursary competition in Arts. Two Bursaries of £35 and £25 respectively will be offered to competition in October, 1903.

It shall be competent for the holders of these Bursaries, whether in Arts or in Medicine, to hold any other Bursary or Scholarship in this University, if the Regulations of that other Bursary or Scholarship permit.

Bursars in Arts—[1] John Whitelaw (£35), 1900; James W. More (£35), 1901; John Baillie (£25), 1901; George J. Jeffrey (£20), 1901; John Reid (£35), 1902; Robert M'Kinlay (£25), 1902; William I. H. Marr (£20), 1902.

Bursars in Medicine—[1] James C. Pairman, M.A. (£30), 1899; Robert B. Carslaw, M.A. (£35), 1900; John L. Stewart, M.A. (£25), 1900; David J. M'Leish (£20), 1900; Peter Lowe, M.A., B.Sc. (£20), 1900; Thomas Barbour (£35), 1901; Peter Mitchell, M.A. (£25), 1901; Thomas Miller (£35), 1902; Hugo G. Robertson (£25), 1902.

PATRICK BURSARIES (*Arts*).—These Bursaries were founded in 1860 by Mr. William Patrick of Roughwood, W.S., and were originally two in number, the one consisting of the free annual proceeds of a sum of £2,000 of consolidated stock of the Glasgow and South-Western Railway, the other of the free annual proceeds of £1,000 of the same stock. They were tenable for two years, but might be continued for other two. By Ordinance No. 85 of the Universities Commission (1889) the number of Bursaries was increased to three, all equal in value, and tenable for four years.

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[1] Vacant through lapse of time.

If a Bursar graduate at the end of three years he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects also the provisions of Ordinance No. 57 apply to the Patrick Bursaries. Candidates must have gone through a course of education at some one of the Public Schools in the County of Renfrew, where a regular course of Classical Study is pursued and must be in circumstances to render it desirable that they should have assistance in prosecuting their studies at the University. The Rector or Head Teacher of such Public School to grant a certificate to any number, not exceeding four of his best scholars, who shall be entitled to present themselves to the Principal and Professors as candidates for the Bursaries. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office).

Bursars—[1] William J. Auld, 1899 ; Adam Patrick, 1900 ; Charles G. G. Helme, 1901.

PENDER MEMORIAL BURSARY.—Founded in 1898 by a Committee of which the Marquis of Tweeddale was Chairman to commemorate the leading part taken by the late Sir John Pender, G.C.M.G., in the establishment and development of Submarine Telegraphy and in its extension throughout the world. The fund consists of about £1,650. The following regulations were made by the Senate after communication with the Glasgow and West of Scotland Technical College and the Committee :—1. That the holding of a Diploma in Electrical Engineering of the Glasgow and West of Scotland Technical College be a condition of appointment to the Bursary. 2. That the appointment to the Bursary be made by the authorities of the Glasgow and West of Scotland Technical College. 3. That the Bursary be tenable for one year. 4. That the Bursar be required during his tenure to attend in the University three full courses or their equivalent from among those that would constitute in his case a qualifying curriculum of study for the Degree of B.Sc. in Engineering. 5. That, in the event of there being no candidate deemed worthy of appointment in any year, the interest be held over to provide a second Bursary in a subsequent year.

Bursar—Robert Bilsland, 1902.

GLASGOW PERTHSHIRE SOCIETY'S BURSARY (*Arts*).—Founded by the Glasgow Perthshire Society in 1873. Value, £25, and tenable for three years. Open to competition to natives and sons of natives of the county of Perth, and also to sons of persons who are *bonâ fide* residents in that county, and have resided in it for not less than three years at the time of the competition. Candidates must be entering on their first year of attendance as students in the University of Glasgow, and the holder of the Bursary will be required to complete attendance on at least two of the classes in the curriculum of Arts in each session. Names of candidates to be sent to Messrs. George Gray and Son, County Buildings, Glasgow, Secretaries of the Society, not later than the twenty-fifth day of August preceding the competition.

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[1] Vacant through lapse of time.

Bursar—[1] George Green, 1900.

Pollock Bursaries (*Arts*).—Founded in 1878, in terms of the Trust Disposition and Settlement of the Rev. Alex. Pollock, senior minister of the Free South Church, Paisley, who bequeathed £3,000, free of legacy duty, for that purpose. The Bursaries are designed to assist young men entering the University of Glasgow, whose circumstances are such as to render it desirable that they should have assistance in prosecuting their studies. The patrons are the Principal and Professors in the Faculty of Arts. Each candidate must lodge along with his application a letter from the Rector, Headmaster, or Classical Teacher of one of the Public Schools or Public Academies within the parliamentary boundaries of the burgh of Paisley, where a regular course of Classical study is pursued, certifying that he has completed his course of education at such school or academy. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office). Should no such qualified candidates present themselves, or should the otherwise qualified candidates fail to reach a satisfactory standard in the Bursary Examination, the Bursary or Bursaries vacant for the time being shall be open to all the candidates in the ordinary Bursary Competition. The Bursaries are three in number, and are tenable for three years, during which period the Bursars must be students in the Faculty of Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations in four subjects taken out of at least two departments for graduation in Arts.

Bursars—[1] William Brown, 1900; Henry Lambie, 1901; John H. Maxwell, 1902.

T. and V. Pratt Bursaries (*Any Faculty*).—The late Mr. Thomas Pratt, who resided at Castlevett, near Lanark, by his Trust Disposition and Settlement, dated 22nd December, 1877, directed his Trustees, as soon after his death as convenient for them, to set apart and invest in name of themselves and such other Trustees as they might deem suitable, a sum to yield an annual income of £40, for the purpose of establishing two Bursaries of £20 each, to be called the T. and V. Pratt Bursaries, to assist in maintaining and educating two students in the University of Glasgow or Edinburgh.

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[1] Vacant through lapse of time.

The necessary funds have now been set aside and invested in name of Trustees for this purpose. The Bursaries are open to sons and daughters of working men residing in or belonging to the United Parishes of Wiston and Roberton, and the Parish of Lamington. His Majesty's Inspector of Schools for the district is to name the candidates found after examination to be best qualified and most deserving of the Bursaries, and the examination which, with the concurrence of the Trustees, he at present prescribes is the General Bursary Competition Examination in Arts at Glasgow University. The Bursaries are tenable for four years, or such shorter time as the Bursar may remain at the University, unless the Trustees are dissatisfied with the Bursar's conduct or diligence. When a vacancy occurs, applications should be lodged with the Trustees' Agents, Messrs. Fyfe, MacLean & Co., Writers, 115 St. Vincent Street, on or before 1st September. (Bursaries both vacant.)

RAINY BURSARIES (*Medicine*).—In 1872, Dr. Harry Rainy, Emeritus Professor of Medical Jurisprudence in this University, made over to the Senate the sum of £1,000 for the institution of two Bursaries in the Faculty of Medicine, and a further sum of £500 to be invested as a supplementary or augmentation fund. The interest of the Bursary Fund is to be divided annually between the two Bursars; and the interest of the supplementary fund is to be employed towards defraying the expenses of administration, and bringing up, when necessary, the annual salaries of the Bursars to £20 each, and increasing the supplementary fund. Should this fund accumulate to £1,000, one half of it is then to be added to the Bursary fund, the interest of which shall be divided as before between the two Bursars. If by this process of augmentation, which is to be repeated as often as the supplementary fund amounts to £1,000, the Bursary fund shall at length yield £60 per annum to each Bursar, the Senate may continue the same process, or constitute additional Bursaries on the principle explained above, the original Bursaries remaining of the value to which they have been raised by augmentation. The augmentation fund is not at any time to be reduced below £500.

The successful candidate may hold his Bursary for two years, namely, during his fourth and fifth years of study in the University of Glasgow. A vacancy occasioned by death, irregular attendance, or misconduct, is not to be filled up till the usual term at which the competition for that Bursary would have fallen due, and accumulations from this source are to be added to the supplementary fund.

A Rainy Bursary will be awarded in November, 1903, to the qualified candidate who, not being the holder of a bursary of equal or greater value, shall be found to have passed in the year 1903 in

Anatomy and Physiology of the second Professional examination, and whose aggregate of marks in these subjects and in Chemistry, Botany and Zoology of the first Professional examination, is the highest.

Bursars—[1] Spencer Mort, 1901 ; William B. M. Martin, 1902.

Ramsay Walker Bursaries (*Arts*).—Two in number, founded in 1879, under the Trust Disposition and Settlement of Miss Ramsay Walker, Crosshill, who bequeathed £700, reduced by legacy duty to £630, for educating two students with a view to the ministry of the Established Church of Scotland. Preference to kindred of the founder, whom failing, to students of the name of Walker, whom failing, to natives of Glasgow, whom failing, the Bursaries will be thrown open to public competition. Candidates must be qualified by their previous education for entering the University. Tenable for four years.

Bursars—Robert C. Thomson, 1900 ; John A. Swan, 1900.

Ross Bursary.—(See Hyndford and Ross, p. 303.)

John Ross, Junior, Bursary (*Theology*).—Founded in 1880 by Mrs. Ross, widow of Mr. John Ross, junior, merchant in Glasgow, in memory of her husband. Patrons—The Senate of the University. The Bursary Fund consists of the capital sum of £1,000, set aside by Mrs. Ross for that purpose. The Bursary is tenable for three years by a student of Divinity in the regular course of study for the degree of Bachelor of Divinity with a view of becoming a clergyman of the Established Church of Scotland. Candidates must be entering on the first session of their study in Theology in the University, and the award shall be determined by the result of the annual competitive examination for Bursaries in Theology. In cases of equality in the competition there is a preference to the student who may be thought to stand most in need of help to carry on his theological studies, or to one who is a native of Ayrshire. The second moiety of the third year's Burse shall not be paid to any Bursar unless and until he shall have passed all the examinations required for the degree of B.D. In the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

Bursar—Robert Alexander, M.A., 1902.

Sanders Bursary.—(See Boyd and Sanders Bursary, p. 278.)

(Sir Walter) Scott Bursaries (*Arts*).—The centenary of the birth of Sir Walter Scott was celebrated in Glasgow in 1871, and in conformity with a suggestion made by Lord Stanley (Earl of Derby), then Lord Rector of the University, the committee who had charge of the arrangements resolved to raise by public subscription a fund for the benefit of distinguished students, and to associate it with Scott's name. The amount subscribed was £3,500, and accordingly two Bursaries, along with the Scott Scholarship, were founded in 1874. The fund is administered by trustees, two of whom are elected by the Senatus, two by the Merchants' House, one by the Faculty of Physicians and Surgeons, one by the Faculty of Procurators, and one being an Assessor of the Council in the University Court, appointed by the four Assessors or a majority of them, in accordance with the provisions of Ordinance No. 91 of the Universities Commission (1889). The Bursaries are now three in number, each of the annual value of £25, and tenable for four years. They are open to free competition, under the same regulations as the competition Bursaries in the University.

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[1] Vacant through lapse of time.

Bursars—[1] Robert M. Morison, 1899; [2] Robert A. Houstoun, 1900.

SHEARER BURSARIES (*Any Faculty*).—Founded in the year 1887, by Archibald Shearer of Boag, who resided in Beith. By Deed of Mortification executed by Mr. Shearer dated 29th April, 1887, he conveyed his lands of Boag, in the parish of Kilbirnie, to trustees for the foundation and endowment of three Bursaries for the advancement of the higher education of the young men of his native parish of Dalry, in the county of Ayr. The Deed provides that the Bursaries shall be open to applicants between the ages of fourteen and twenty-four, who are the sons of parents or of a surviving parent *bona fide* resident for a period of not less than two years immediately preceding the date of application in the parish of Dalry, or to applicants who, for a period of not less than the last two years of their school curriculum, have received their education in the schools within the said parish, to enable the Bursars to pursue their education as students at the University in one or other of the Faculties. Students who have enjoyed a Bursary during their Arts course are eligible for a second Bursary in another Faculty. Applicants to undergo such examination as the trustees may from time to time appoint. Each Bursary to be one-third of free income from the lands of Boag, but not exceeding the annual sum of £30, and to be tenable for three years. Further information will be afforded by the Agents of the Trustees, Messrs. J. & J. M'Cosh, writers, Dalry.

Bursar—Andrew Henderson (three years), 1901.

SHIPWRIGHTS' COMPANY BURSARY.—The Fishmongers Company of London has placed the sum of £50 per annum at the disposal of the Educational Trust Fund Committee of the Shipwrights' Company for a period of three years that a Scholarship or Bursary may be given to a deserving student of Naval Architecture in this University. Appointment to the Bursary rests with the Educational Trust Fund Committee, and with a view to an appointment being made in October, 1903, the Senate has been invited to nominate a promising and deserving student. Applications to be sent to the Clerk of Senate on or before 1st October.

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[1] Vacant through lapse of time. [2] Bursar appointed to a Fellowship.

SMITH (CRUTHERLAND) BURSARY (*Any Faculty*).—In 1849 Dr. John Smith of Crutherland founded two bursaries, which were not restricted to any particular Faculty. Patrons—the Directors of the Incorporated Company of Stationers. Sons of members of the Company are preferred, then sons of persons connected with any of the trades included in their charter, whom failing, such other students as may be approved of by the patrons. The value of each was £9 per annum, and they were tenable for one or more years at the option of the patrons. Ordinance No. 77, issued on 15th February, 1895, provides that the two bursaries shall hereafter be conjoined into one, and that the bursary shall be tenable for four years. If a bursar in Arts graduate at the end of three years, he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. If a bursar in Divinity graduate at the end of three years he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study in Divinity approved by the Senate. Applications to be made to Mr. R. Brodie, 77 St. Vincent Street, Glasgow.

Bursar—Robert Cuthbertson, 1902.

STEVENSON OF DALRY BURSARIES (*Arts*).—The Rev. Robert Stevenson, D.D., minister of the Parish of Dalry, Ayrshire, who died on 11th September, 1890, by his Trust Disposition and Settlement dated 28th July, 1890, directed his Trustees to pay over to the University Court the sum of £2,000, free of legacy duty, for the foundation of two Bursaries in Arts. They are open for competition to students entering on the first or second session of attendance in the Faculty of Arts, who are prosecuting their studies with a view to the ministry of the Church of Scotland, with a preference in the first place to natives of the parish of Dalry in Ayrshire, and in the second place to natives of the parishes of Bannockburn or St. Ninians in Stirlingshire. The Bursaries, which are of equal value, are tenable for four years.

Bursars—Archibald A. Bowman, 1900; William D. MacGill, 1902.

STEWART BURSARIES (*Arts*). These Bursaries, three in number, founded in 1809 by the Rev. James Stewart, are in the gift of the Senate. They commence with the Humanity or the Greek Class, and may be held during the Gown Course. Value, £15 per annum each. The names Stewart and Simpson were preferred, but this preference was cancelled by Ordinance No. 57 of the Universities Commission (1889). In case of a vacancy, a student of the same standing is appointed. The Senate, acting under Section xiii. of the said Ordinance, have resolved to award one of the Stewart Bursaries in respect of exceptional distinction in English, to a student of the first year who, having passed the Arts Preliminary, has gained the highest marks in English in the Bursary Examination and has not obtained a bursary for general excellence.

Bursars—[1] Robert Cunningham, 1899; Alexander Murphy, 1900; Clark Nicholson, 1900.

STILLIE BURSARY IN MUSIC.—This Bursary was founded by Mrs. Thomas Stillie in 1885, the Trustees being the Executive Council of Queen Margaret College, and their successors in office. The Trustees were to apply the annual proceeds of the investment of £125 in providing one Bursary, to be granted yearly to a student of Music, as a reward for proficiency in Music, and an encouragement to further study. The Trustees were empowered to make such regulations as they should see fit from time to time for testing the merits of the candidates, and also for prescribing the age of candidates and the course of study to be pursued in connection with Queen Margaret College or otherwise, which the Trustees might desiderate as a condition of awarding the Bursary. The University Court, having taken over Queen Margaret College, are the successors in office of the Executive Council of Queen Margaret College in respect of the Stillie Bursary Fund, which in January, 1895, amounted to £160. The following regulations have been adopted by the Court:—1. The Bursary shall be awarded in connection with the examinations in Music conducted in Glasgow by the Associated Board of the Royal Academy of Music and the Royal College of Music. 2. The Bursary shall be awarded by the Senate on a report by the Examiners of the said Board. 3. Only candidates for the Senior Grade Examination shall be eligible, and the Bursary shall be awarded to the candidate examined in Glasgow who shall obtain the highest number of marks in that examination. 4. The Bursary shall not be awarded if the candidate with the highest number of marks has not obtained honours; and in that case the proceeds shall be added to the capital fund.

Bursar—Catherine Thomson Paterson, 1903.

DR. STRANG BURSARIES (*Science*).—Mrs. Machen of Ferniecraig, Skelmorlie, who died recently, left funds for the foundation of four Bursaries, each of the annual value of £20, to be instituted in connection with the University of Glasgow, in memory of her brother, the late Dr. John Strang, City Chamberlain of Glasgow from 1834 to 1863. The Trustees under their powers have meanwhile agreed that these Bursaries should be tenable by students of Engineering Science in the University of Glasgow. Each Bursary is tenable for three years. The Bursaries shall be awarded on the results of the Science Preliminary Examination, and no candidate shall be appointed to a Bursary unless he passes the whole preliminary examination. Each Bursar shall be required to attend a course qualifying him for graduation in Engineering Science on the side of Engineering.

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[1] Vacant through lapse of time.

The Bursaries shall be payable by equal moieties in the month of January and at the close of the winter session, but the second moiety of the second year's Burse shall not be paid until the student has passed the first Science Examination for B.Sc. in Engineering Science, except in special circumstances. No student shall be entitled to hold a Dr. Strang Bursary who is receiving any other Bursary.

In each of the years in which two appointments fall to be made, the Trustees, in appointing to the second Bursary, will take into account, not only the results of the examination, but also, and specially, other circumstances (financial and otherwise) affecting the candidates.

Further particulars may be obtained from Professor Barr, D.Sc., Engineering Department, University of Glasgow, or from Messrs. Kerr & Barrie, Solicitors, 149 St. Vincent Street. (Two vacancies.)

Bursars—Thomas Muirhead, 1902 ; Thomas L. Turner, 1902.

STRUTHERS BURSARY.—(See Gilhagie and Struthers Bursary, p. 296.)

TAYLOR BURSARIES (*Any Faculty*).—Two in number, founded by Mr. James Taylor, writer in Glasgow, who by Trust Disposition and Settlement of date 30th June, 1857, bequeathed to the University the sum of £800 for Bursaries. After Mr. Taylor's death, the trustees found that the estate was not sufficient to pay the various legacies in full. They paid over to the University in January, 1868, the sum of £560. and in September, 1878, a further and final dividend of £80, making in all £640, the free proceeds of which are applied to the payment of the two Bursars. The Senate are Patrons. The preference given to the names Tayler or Taylor, Ronald, Dunlop, Henderson, and M'Arthur, was cancelled by Ordinance No. 57 of the Universities Commission (1889).

Bursars—Arthur Turnbull, 1901 ; John Drummond, 1902.

JAMES THOMSON PHILOSOPHICAL ENTRANCE BURSARY (*Arts, Phil.*). —Founded by subscription in 1878 in memory of James Thomson, M.A., a distinguished student of this University, who died in 1876 before the close of his theological curriculum. The Bursary consists of the proceeds of a sum of about £300, and is tenable for two years. It is awarded biennially for the best examination in (*a*) Mental Philosophy and (*b*) English Literature alternately. The examination is open to all students of the first and second year who have not already attended the Logic, Moral Philosophy, or English Literature Class, and who have not attended a session in any other Scottish University. The Bursary is payable in four instalments, but the last instalment will not be paid till the Bursar has passed his examinations in Latin and Greek for the M.A. Degree in Glasgow University. The subjects of Examination in Mental Philosophy and English Literature respectively are the same as for the John Ferguson Jaffrey Bursary. (See page 303.)

The next examination will be held in October, 1904, the subject of examination being Mental Philosophy.

Bursar—John C. Watson, 1902.

WALKINSHAW YOUNG BURSARY (*Law*).—Founded in 1878 by Major Young, Dunmore, Kirn, who bequeathed to the University a sum of £500, free of legacy duty, for promoting any useful branch of Education which the Principal and Professors may think proper.

The following regulations have been adopted :—

1. The Bursary shall be tenable for two years, during which the holder shall give regular attendance as a public student in the Faculty of Law in the University, to the satisfaction of the Senate.

2. All persons who within two years previous to the time when an appointment to the Bursary is made, have, at an examination in Arts, for the Degree of B.L. passed in not fewer than two Arts subjects, or have passed in any two subjects for the Degree of M.A., shall be eligible as candidates, and the Senate shall appoint that one among the candidates who in their opinion is the most distinguished. A student who passes a qualifying Examination in the October of the session in which an appointment is made, shall be held eligible within this rule, but one who has passed an examination in the October two years preceding such an appointment, and has not passed any subsequent qualifying examination, shall not be eligible.

3. The Bursary shall not be tenable along with any other Bursary or Scholarship in the University.

The next appointment to this Bursary will be made in December, 1904. Applications, containing in each case a statement of any distinctions gained by the candidate, to be sent in to the Clerk of Senate on or before 1st December.

Bursar—Cosmo A. Ralston, 1902.

WALTON BURSARY (*Medicine*).—This Bursary was founded in 1763 by Dr. William Walton, Huntingdon, for a student in Medicine. The Earl of Sandwich has the right of appointing to the Bursary one of two students nominated by the Senate. Preference is given to "Students of the English Nation." The Bursary may be held for four years. Value about £34 per annum.

Bursar—Alfred C. Sharp, 1901.

ANDREW WEIR BURSARY (*Medicine*).—Founded in 1884, in terms of a Bequest by Mrs. Janet Maxwell or Weir, relict of Andrew Weir, feuar in Paisley. Mrs. Weir bequeathed the sum of £500 to the University, and directed the annual income of the legacy to be devoted to maintaining a Bursary in connection with the Medical School, in such a manner as the Senate may appoint. The Bursary is in memory of a son of the founder, Andrew Weir, a medical student of Glasgow University, who held subsequently the post of Resident Physician in the Paisley Infirmary, and in the discharge of his duties there contracted a fever, of which he died. The Bursary is awarded annually at the beginning of the Winter Session, in accordance with the results of the second and third professional examinations, account being taken of the marks gained by all students who have passed both of these examinations within a period not exceeding thirteen months, reckoning backward from the date of the professional examinations in October of each year. During the tenure of this Bursary, which may be held along with another Bursary, the holder shall be bound to give regular attendance on the classes of the medical curriculum in the University.

Bursar—[1]William D. H. Stevenson, M.A., 1902.

William Whyte Bursaries (*Arts, Law, or Medicine*).—Four in number, founded in 1893 in memory of Mr. William Whyte, at one time Preceptor of Hutchesons' Hospital, in accordance with instructions contained in the Trust Disposition and Settlement of his daughter, Mrs. Isabella Whyte or Bamber, who died in 1882. The Trustees executed a Deed of Mortification transferring £2,000, less legacy duty, to Hutchesons' Hospital. The Bursaries are each of the annual value of £25, and are tenable for four sessions in the Faculties of Arts, Law, or Medicine. They are open to competition by boys who have attended and completed the curriculum in the Secondary Department of Hutchesons' Grammar School. Candidates must give in their names to Messrs. Hill & Hoggan on or before 1st September in each year, to be sent to the Clerk of Senate, that they may be entered for the University Entrance Bursary Competition. One Bursary will be awarded every year to the candidate highest in the order of merit who shall not have gained and elected to hold a Bursary of equal or higher value at the general competition, provided his attainments have reached a standard satisfactory to the Patrons of Hutchesons' Hospital.

The sum of £408 15s. 8d. at the credit of the Fund at 31st December, 1892, is to be allowed to accumulate until that sum, with such additions as may accrue from any portion of the income that may not be required for the purposes aforesaid, shall amount to a sum which will produce a return of £20 yearly. There shall then be instituted a Bursary of that value, to be competed for by girls educated in Hutchesons' Girls' School, which Bursary shall be tenable at the University of Glasgow.

Bursars—[1] Allan R. Barrowman, 1899 ; John D. Simpson, 1900 ; George Campbell, 1901 ; David Manson, 1902.

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[1] Vacant through lapse of time.

King William's Bursaries (*Two in Arts and Two in Theology*).—These Bursaries, founded by his Majesty King William III. in 1695, were formerly six in number and known as the Exchequer Bursaries. They were tenable for six years—the first in Logic, the second in Moral Philosophy, the third in Natural Philosophy, and the last three in Divinity. The bursars in Philosophy received £10 per annum each, and those in Divinity £13 6s. 8d. The Foundation was regulated by Act of Parliament, 1758. By Ordinance No. 99 the Universities Commission (1889) altered the conditions and directions affecting the Foundation, making two Bursaries in the Faculty of Arts, each of the annual value of £15, and two in the Faculty of Divinity each of the annual value of £20. Each of the Bursaries is tenable for three years, and no longer. The Bursaries in Arts are open by competition to all students entering on their first year of attendance on a course of study for graduation in Arts. The Bursaries in Divinity are open by competition to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first year of attendance on a course of study for graduation in Divinity. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this foundation.

Bursars in Arts—[1] James Miller, 1900; Euphemia W. Sutherland, 1902.

Bursar in Divinity—[1] Matthew Babington, M.A., 1900.

Williams Bursaries (*Arts and Theology*).—The Rev. Dr. Williams, London, in the year 1711 bequeathed to certain individuals in London, in trust, an estate, to found Bursaries for educating natives of South Britain at the University of Glasgow. The founder, with a particular view to support the cause of Protestant dissent in England, directs that every Bursar on this foundation shall promise, in writing, to become a preacher among the dissenting ministers of that country. The Bursaries are tenable for three years, but renewable for another year on application, on the understanding that the student has graduated in Arts, and is about to enter the Divinity Hall. Value, £40 per annum each. The right of presentation is vested in the founder's trustees. Secretary to the Trust—Francis H. Jones, B.A., Dr. Williams' Library, Gordon Square, London, W.C., with whom applications, accompanied by the necessary certificates, should be lodged before 1st June. (One vacancy.)

Bursars—Harold C. Rowse, 1900; John Lewis, 1900; Henry M. Trafford, 1901.

Wilsone Bursary.—(See Boyd and Wilson, p. 278.)

George Young Bursary (*Science*).—By Trust Disposition and Settlement of date 30th August, 1892, Mrs. Catherine M'Farlane or Young, who died at Helensburgh on 4th November, 1893, directed her Trustees to make over to the Senate of the University of Glasgow the sum of £1,000, free of legacy duty, for the purpose of founding, in memory of her husband and son, a Bursary in connection with the class of Civil Engineering, on such terms and conditions as the Senate should from time to time fix. The Senate have determined that the Bursary shall, upon the recommendation of the Faculty of Science, be awarded to the candidate who has the best record in his First Science Examination. Students who have passed the whole of that examination or at least in Mathematics and Natural Philosophy with or without the higher branches specified in Ordinance No. 23, Section ix., Subsections 1 and 2, may offer themselves as candidates, but students who have completed the qualifying attendance in Engineering shall not be eligible. The Bursary shall be tenable for one year, during which the Bursar must attend a course of Laboratory Practice in Engineering and either a course (or half course) of Engineering Lectures or a course of Engineering Drawing. Appointment in the month of October.

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[1] Vacant through lapse of time.

Bursar—Henry J. M. Cousens, 1902.

MAJOR YOUNG'S FUND BURSARIES (*Law*).—Two in number, founded in 1890 by the Trustees of the late Major Young, founder of the Walkinshaw Young Bursary. The amount of the Bursary Fund is about £1,312, and each of the Bursars receives one half of the free annual income thereof. In accordance with Major Young's desire, the Bursaries are open only to applicants whose pecuniary circumstances are such as in the judgment of the Senate render it desirable that they should have assistance in prosecuting their studies at the University, preference being given, *cæteris paribus*, to natives of Argyllshire or Renfrewshire. One of the Bursaries is tenable for six years, and is awarded by competitive examination to a student of the first year who intends to study for a Degree in Law. The Bursar is required during his tenure of the Bursary to attend such classes and to pass such examinations for a Degree in Law as shall be held by the Senate to correspond to the successive stages of his course and he must attend a class or classes in the Faculty of Law during at least the last two years of his tenure of the Bursary. The other Bursary is tenable for two years, and is awarded by competitive examination upon subjects prescribed by the Senate. Candidates must have expressed their intention of attending the classes of Scots Law and Conveyancing, and the Bursar must attend these classes in separate sessions during his tenure of the Bursary. Either of these Bursaries may be held with any other Bursary, Scholarship, or Prize in the University, but both shall not be held together by one Bursar. The subjects of examination are those prescribed for the General Bursary competition. (Both vacant).

2. *EXHIBITIONS, FELLOWSHIPS, AND SCHOLARSHIPS.*

ALPHABETICALLY ARRANGED.

N.B.—In cases in which a Scholarship or Fellowship falls vacant otherwise than by lapse of time, the Senate may, except where it is inconsistent with the deed of foundation, hold a competition, and make an appointment for the remainder of the period for which such Fellowship or Scholarship may be held. At the next ordinary competition no student shall be excluded from the competition by reason of his having previously been appointed to fill a vacancy for less than the full period; but in no case shall any student hold such Scholarship or Fellowship for longer than the full period fixed in the regulations applicable to such foundation.

FOUNDATION.	No. of Scholarships, &c.	TENABLE BY	Approximate Annual Value of each.
Black Theological,	1	Masters of Arts of Scot. Univ.,	£126
Breadalbane,	2	M.A. or B.Sc., Eng., Glas. Univ.,	£50
Clark, George A.,	4	3 M.A., 1 M.A. or B.Sc., do.	£168
Clark, John (Mile-end),	12	Arts Students at close of Curric.,	£50
Coats Memorial,	1	Medical Graduates of Glas. Univ.,	£60
Cunninghame,	2	Bachelors of Laws of Glas. Univ.,	£34
Donaldson, Alexander,	1	Candidates for B.Sc. (Chemistry),	£40
Donaldson, Robert,	2	Bachelors of Science of Gl. Univ.,	£64
Eglinton,	2	Masters of Arts of do.	£65
Euing, William,	3	Do. do.	£100
1851 Exhibition Science	2	Science Students,	£150
Ferguson,	6	Masters of Arts of Scot. Univ.,	£80
Foulis Memorial,	1	Medical Graduates or Licentiates,	£50
Houldsworth,	1	Research Students in Nat. Phil.,	£150
Lloyd's Register,	3	Students of Naval Architecture,	£50
Luke,	1	Masters of Arts of Glas. Univ.,	£95
Mackay Smith,	2	Students in Nat. Phil. and Chem.,	£48
Mackinnon,	1	(See page 353),	£50
Metcalfe,	1	Masters of Arts of Glas. Univ.,	£100
Reid-Stewart,	1	Do. do.	£50
Sandford,	1	Greek Students, do.	£20
Scott (Sir Walter),	1	Masters of Arts of do.	£80
Shaw Philosophical,	1	Do. Scot. Univ.,	£140
Snell (at Oxford),	5	Masters of Arts, etc., Glas. Univ.,	£80
Thomson Experimental	3	Students of Natural Philosophy,	£20
Watt, James,	1	Bachelors of Science,	£37

BLACK THEOLOGICAL FELLOWSHIP.—This fellowship, which is now of the annual value of £126, was instituted under the Will of the late Mrs. Janet Black (who died in 1876) in memory of her husband, the Rev. William Black, D.D., minister of the Barony Parish of Glasgow. Candidates must be members of the Established Church of Scotland.

The following regulations have been adopted by the Senate with the sanction of the University Court :—

1. The Black Theological Fellowship shall be tenable for one year.

2. It shall be awarded by competition open to Masters of Arts from any of the Universities of Scotland completing the ordinary curriculum of Theological study in the University of Glasgow in the academical year in which the examinations are held.

3. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

4. The Fellowship shall be awarded by the Theological Faculty at the close of the winter session to the most distinguished graduate in Divinity of the session qualified in terms of the foundation, but the Fellowship shall be awarded only if the Candidate has, in the opinion of the Faculty, attained a sufficient standard of merit.

5. The holder of the Fellowship shall, during the tenure of it, perform such duties—whether in the form of giving a short course of lectures, or of undertaking tutorial work, or otherwise—within the University, as may be assigned to him by the Faculty of Theology with the sanction of the Senate.

6. The Fellowship shall not be held in conjunction with any other Theological Fellowship or Scholarship or Prize falling to be awarded at the same time, or subsequently during its tenure.

Subject to these regulations an appointment to the Fellowship will be made in April, 1904.

Present Fellow—Norman R. Mitchell, B.D., 1903.

BREADALBANE SCHOLARSHIPS.—The second Marquis of Breadalbane, an alumnus, and afterwards Rector of the University, gave from the first year of his Rectorship (1840-41), and during his lifetime, the sum of £100 annually, which was for some years distributed in prizes among certain classes, and afterwards appropriated to the establishment of two Scholarships, the one in Mathematical and Physical Science, and the other in Mechanical Philosophy, Chemistry, and those branches of Natural History that are connected with the Arts and Manufactures.

The Marquis died in 1862, and his Deed of Settlement made provision for the "annual payment, in all time coming, to the University of Glasgow, of the sum of £100, to be paid yearly to deserving students in this college, as scholarships or Bursaries, to be called the 'Breadalbane Scholarships,' in such manner as shall be fixed by the Senatus Academicus of the said University."

The following regulations have been approved by the Senate:—

The number of Scholarships shall be two, of £50 each per annum, for the encouragement of pure and applied Science.

The scholars shall be chosen, after competitive examination in Mathematics and Natural Philosophy, from among candidates who shall have taken the Degree of Master of Arts, or the Degree of Bachelor of Science in the Department of Engineering Science, at the University of Glasgow, within a period of not more than three years preceding the examination; provided always that students graduating at the supplementary graduation in November of any year, shall, for all purposes, be held to have graduated at the ordinary graduation in April immediately preceding.

Each scholar shall pursue such course of scientific study during the tenure of his Scholarship as the Senate shall in each case prescribe, and shall hold his Scholarship for three years ; provided that at the end of the first and second years he give the Senate such evidence, by examination or otherwise, as the Senate shall deem sufficient, of having successfully prosecuted the prescribed course of study.

Scholars—David G. Taylor, M.A. (1901), 1902 ; Francis P. H. Stirling, M.A., 1901.

CARNEGIE FELLOWSHIPS AND SCHOLARSHIPS.—See pp. 157-164.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS.—By the Will of the late Mr. George A. Clark, manufacturer, Paisley, a sum of £20,000 was bequeathed in 1872 to this University for the creation of four Bursaries, tenable each for four years. The following are the regulations :—

1. One of these Bursaries shall be competed for annually, at or immediately after the October examination for Degrees in Arts or Science.

2. The four Bursaries are assigned respectively to four of the Groups of Honours enumerated in Ordinance No. 11, Section XI., of the Universities Commission (1889), viz. :—(1) Classics ; (2) Mental Philosophy ; (3) Mathematics and Natural Philosophy ; (4) English (Language, Literature, and British History).

For the Classics Bursary or Scholarship either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Classics, may be candidates ; for the Mental Philosophy Bursary or Scholarship, either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mental Philosophy, may be candidates ; for the Bursary or Scholarship in Mathematics and Natural Philosophy either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mathematics and Natural Philosophy, or Bachelors of Science of this University who have taken the Degree of B.Sc. in Pure Science, or students presenting themselves for the final examination for the B.Sc. Degree in Pure Science in the subjects of Mathematics and Natural Philosophy, may be candidates ; and for the Bursary or Scholarship in English either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in English, may be candidates.

But no student shall be eligible for the examination after the expiration of more than eight winter sessions from the time of his first entering a class qualifying for the M.A. Degree or the B.Sc. Degree.

3. The successful candidate shall undertake, during his tenure of the Bursary, to give such assistance in the teaching work of the University, and to follow such a course of study in the University as the Senate may determine.

4. The subjects of examination each year shall be those which constitute the examination for Honours in one of the above-named Groups (the Group selected each year for examination to be publicly announced). The Senate reserve the right to withhold the Scholarship, should none of the competitors reach the standard of attainment required of graduates in Arts with highest honours.

5. In the event of the examiners reporting in any year that no candidate has done sufficiently well in the subjects of that year to deserve the Scholarship, no appointment shall be made in that year; but it shall be in the power of the Senate to hold an examination for the same Scholarship, and in the same subjects, in the following year; provided that in that case the Scholarship shall be held for three years only and not for four, the surplus revenue being added to the capital of the fund. Should the same thing occur again, it shall be in the power of the Senate to appoint a Scholar for two years only, or for one year only, the examination in each case being in the same subjects as when the Scholarship was first competed for. In the same manner, in the event of a vacancy occurring in the tenure of any of the Scholarships otherwise than by lapse of time, the Senate may make an appointment for the remainder of the term for which the Scholarship might have been held by the student vacating it, and after examination in the same subjects as those for proficiency in which the Scholar was originally appointed; but in no case shall the regular rotation of subjects as above provided for be disturbed. In the competition for scholarships to be held for less than four years, no student shall be admitted to examination who would not be eligible, as above arranged, for a Scholarship to be held for four years. In the event of a candidate being appointed to a vacancy to be filled for less than four years, and being still eligible, under the usual regulations as above, to compete for the said Scholarship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Scholarship, but in no case shall any student be permitted to hold the Scholarship for more than four years in all.

6. It shall not be competent for the holders of these Bursaries to hold any other Bursary or Scholarship in this University.

7. It shall be in the power of the Senate to deprive any Bursar of his Bursary, in the event of his not complying, to their satisfaction, with any of the above regulations.

8. The Examiners shall be the same as the Examiners for the Degree of M.A. with Honours in each of the several departments, and for the Degree of B.Sc.

One of these Bursaries or Scholarships will be competed for, subject to the foregoing regulations, in October, 1903. It will be tenable for four years, and the examination will be in the third of the four groups above enumerated, viz., Mathematics and Natural Philosophy.

Candidates are requested to give in their names to the Assistant Clerk (Matriculation Office), not later than 16th September.

Bursars—[1] George D. Valentine, M.A., 1899 (Mathematics and Natural Philosophy); John L. Morison, M.A., 1900 (English); Samuel F. H. Mackay, M.A., 1901 (Classics); Alexander D. Lindsay, M.A., 1902 (Mental Philosophy).

JOHN CLARK (MILE-END) SCHOLARSHIPS.—By the Deed of Constitution regulating the John Clark Bursaries (see page 282), the Founder, Mr. John Clark, also instituted Scholarships of £50 annual value, open for competition to all Protestant students of good moral character, sons or daughters of Protestant parents, and who have completed their curriculum in Arts in Glasgow University. The Scholarships are to be awarded to the candidates who stand highest at written examinations in the branches of learning appointed by the trustees, and are tenable for four years, subject to the condition that the Scholars give their undivided time and attention to the prosecution of their studies with a view to any of the learned professions, or, on approval of the trustees, any other profession or business they may prefer. The trustees have resolved that they will not, in ordinary circumstances, appoint to a Scholarship any one who holds a Scholarship of equal or greater value, and that no student shall be eligible for the examination after the expiry of more than eight winter sessions from the time of his first entering a qualifying class. Three Scholarships are offered for competition in October, 1903, one in the Group of History, one in the Group of Economic Science, and one in the Group of Classics. The examination will be on the subjects prescribed for the Degree of M.A. with Honours in the respective Groups.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office), and also to Mr. Wm. Kidston, 50 West Regent Street, Glasgow, on or before the 16th September.

Scholars—[1]George Ogilvie, 1899 (English); [1]Robert M'Ewan, 1899 (Classics); James F. Dyer, 1900 (Classics); Alexander B. Mackay 1900 (Mental Philosophy); Thomas Jones, 1900 (Economic Science); Steuart N. Miller, 1901 (Classics); William R. Wiseman, 1901 (Mental Philosophy); David G. Taylor, 1901 (Math. and Nat. Phil.); John R. Cameron, 1902 (English); Mary C. Cameron, 1902 (Modern Languages).

JOSEPH COATS MEMORIAL SCHOLARSHIP.—Founded in 1900 by the friends of the late Professor Coats, as a memorial of his distinguished services to Pathological Science, and in recognition of the ability and enthusiasm which he devoted to advance the teaching of the subject in Glasgow. The Scholarship is for the encouragement of original research in Pathology, is awarded biennially, and is tenable for one year. The Committee of subscribers paid over to the University Court £1,200, to the free proceeds of which for the two preceding years the Scholar is entitled during his year of tenure. Candidates must be graduates in Medicine in the University of Glasgow of not more than three years standing. The Scholarship will be awarded by the Senate on the results of a practical examination in Pathology, conducted by the Professor of Pathology with the assistance of two other members of the Faculty of Medicine to be appointed by the Senate in the beginning of October of every second year. The successful candidate must, for nine months following the award, prosecute research in Pathology with the Pathological Institute at the Western Infirmary, or in a Laboratory elsewhere approved of by the Faculty of Medicine, and shall not engage in Medical or Surgical practice during that period. The first appointment will be made in the beginning of session 1903-4.

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[1] Vacant through lapse of time.

ANDREW CUNNINGHAME SCHOLARSHIPS.—Mr. Andrew Cunninghame, Town Clerk Depute of Glasgow, who died in 1886, bequeathed to the University, free of legacy duty, £5,000, for the purpose of completing the tower, and also £350, the annual revenue of which was to be applied in purchasing a gold medal as a prize in the class of Mathematics. He also bequeathed to the Senate £2,000 for two Bursaries or Scholarships in connection with the Scots Law and Conveyancing Classes. The following regulations were adopted by the Senate on 15th March, 1888:—

1. One half of the free income of the bequest shall be applied for the purpose of a Scholarship in connection with the class of Scots Law, and the remaining half for the purpose of a Scholarship in connection with the class of Conveyancing.

2. Each Scholarship shall be tenable for two years.

3. On each vacancy the candidate who, in the opinion of the Senate, is the most distinguished Bachelor of Laws of the year, shall be appointed, special consideration being given to eminence in Scots Law and Conveyancing.

4. Students who have been found qualified for the Degree of LL.B. at the spring and winter graduations of the year in which the appointment is made, shall be eligible as candidates.

5. The conditions of holding the Scholarships are that the scholars give such assistance in the work of the classes of Scots Law and Conveyancing respectively as the Professors of these classes may require, subject to the approval of the Senate.

6. In the event of a vacancy occurring during the tenure of any Scholarship, the Senate may, if they think fit, appoint a Scholar to hold the Scholarship for the unexpired period.

An appointment to the Scots Law Scholarship will be made in November, 1903, if candidates of sufficient distinction present themselves.

Scholars—[1] John Girvan, LL.B., 1901 (Scots Law).

ALEXANDER DONALDSON SCHOLARSHIP OR BURSARY.—Founded in 1881 by Will of the late Mr. Alexander Donaldson, iron merchant in Glasgow, who bequeathed to the Senatus of Glasgow University £1,000, to be administered by them as patrons for the endowment of a Scholarship or Bursary, at their discretion, in connection with the said University.

The following regulations were adopted by the Senate on 1st May, 1884:—

1. The Scholarship shall be awarded to the candidate who, presenting himself for the first examination for the Degree of B.Sc. held in the month of April, shall stand highest in Chemistry.
2. The Scholarship shall be tenable for two years.
3. The second moiety of the second year's stipend shall be paid only after the Scholar has passed all the examinations for the Degree of B.Sc.

These regulations apply to students proceeding to the Degree of B.Sc. under the new regulations for that Degree.

The next appointment will be made after the B.Sc. examination in April, 1904.

Scholar—Robert Irvine, M.A., 1902.

ROBERT DONALDSON SCHOLARSHIPS.—Founded in 1887 by the trustees of the late Mr. Robert Donaldson, iron merchant, Glasgow, who left £2,000 to the Senate for two Scholarships for such scientific purposes as the trustees should approve. The following tentative scheme has been approved by the trustees:—

1. The income of the fund shall be devoted for two years alternately to Scholarships in Chemistry and Biology.
2. Each Scholarship shall be tenable for two years.
3. Students who have taken the Degree of B.Sc. in Glasgow University shall be eligible.
4. The appointment shall be made by the Senate on a report as to the merits of the candidate or candidates by the Professor of the subject.
5. The scholar appointed shall devote himself for two years in this University, or for one year in this University and the other in such place as the Senate may approve, to research in the subject in

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[1] Vacant through lapse of time.

which he has obtained the Scholarship. The holder of the Scholarship in Biology shall have the option of selecting Zoology or Botany as the subject of research.

6. The Senate are not bound to make an appointment unless the candidate is in their opinion qualified.

The appointment in November, 1904, will be in Chemistry.

Scholar—Jane H. M'Ilroy, M.A., B.Sc., 1902.

EGLINTON FELLOWSHIPS.—On the death of the Earl of Eglinton, formerly Rector of the University of Glasgow, a committee was formed to collect subscriptions for the purpose of commemorating in a suitable manner his virtues and public services; and, subscriptions having been received to the amount of £7,000, it was resolved by the subscribers, in 1862, to set apart £4,500 out of this sum as a Scholarship or Fellowship Fund in the University of Glasgow.

By the Trust Deed of date November 8th, 1865, the net yearly produce of the said sum (after deducting expenses) is to be appropriated to the support of one or more Fellowships, not exceeding three, to be competed for by the alumni of the College of Glasgow, and to be held for a period not exceeding four years, upon the following conditions, viz.: First,—The number of Fellowships, and the period during which the same are to be held, shall from time to time be fixed by the Senatus Academicus of the said University. Secondly,—The competition for the Fellowships shall be open only to deserving students who shall have taken the Degree of Master of Arts in that University at the term preceding the competition, and the Fellowships shall be awarded by the Senatus Academicus of the University to those students who have shown themselves in a public competition to have acquired the greatest amount of knowledge and proficiency in the branches of study embraced in the curriculum of Arts, and such branches of Natural Science as the Senate shall, from time to time, require. And, Thirdly,—The Examination for the Fellowships shall be under the direction of the Senatus Academicus of the University, who shall fix the subjects of examination, and the relative value of each subject in the competition, and appoint any of their own number, or other fit persons, to be Examinators, and make such regulations with relation to the said Fellowships, and the competition and examination therefor, as from time to time they may think fit.

The following are the regulations of the Eglinton Fellowships:—

1. The number of the Eglinton Fellowships shall be two (of about £65 per annum each), tenable for three years, subject to the approval of the Senate at the end of the first and second year.

2. The competition for the Fellowship shall be open only to deserving students who shall have taken the Degree of Master of Arts in the University of Glasgow, at the term preceding the

competition.[1] In the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

3. One of the Fellowships shall be open to competition in October, 1866, and thereafter triennially (1905); and the other in October, 1867, and thereafter triennially (1903).

4. The successful candidate shall undertake, during his tenure of the Fellowship, to follow such a course of study in the University, or to give such assistance in the teaching work of the University, as the Senate may determine.

5. The Examination for the Eglinton Fellowship to be competed for in October, 1890, and thereafter sexennially (1908), shall be in Classics; and the Examination for the Eglinton Fellowship to be competed for in 1893, and thereafter sexennially (1905), shall be in Mental Philosophy.

The subjects of examination in Classics and Mental Philosophy respectively shall be the same as those for the Degree of Master of Arts with Honours.

6. The Examination for the Eglinton Fellowship to be competed for in October, 1897, and thereafter sexennially (1903), shall be in Mathematics and Natural Philosophy; and the Examination for the Eglinton Fellowship to be competed for in October, 1900, and thereafter sexennially (1906), shall be in English (Language, Literature, and British History).

The subjects of examination in Mathematics and Natural Philosophy and in English respectively shall be the same as those for the Degree of Master of Arts with Honours.

7. The Eglinton Fellowship shall not be held along with the Snell Scholarship, or Breadalbane Scholarship, and the holder of the Luke Fellowship or of the Metcalfe Fellowship shall not be admitted to compete for the Eglinton Fellowship.

The next ordinary competition will take place in October, 1903, the subject of examination being Mathematics and Natural Philosophy.

Fellow—[2] Ritchie Girvan, M.A., 1900 (English); John MacInnes, M.A., 1902 (Classics).

WILLIAM EUING FELLOWSHIPS.—Founded in 1874 by Mr. William Euing, insurance broker, Glasgow, who by his Will bequeathed to the University, along with a library of rare and valuable books, the sum of £6,000 for the endowment of three Fellowships, each of the value of £80 per annum, and tenable for not more than five years.

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[1] *i.e.* Either at the ordinary graduation in April or at the supplementary graduation November.

[2] Vacant through lapse of time.

The Fellowships are open only to deserving students who have completed the regular curriculum in Arts, and taken the Degree of M.A. at this University, and are awarded after competition in the subjects of the Arts curriculum. The Fellows are required to reside in Glasgow for at least nine months in the year, and "to open private classes of limited numbers, for giving instruction to, and aiding students of the University—more especially during the vacation, or such part thereof as may be found expedient—in such studies as may be auxiliary to, or illustrative of, the course of lectures which such students may have attended, or be desirous of attending, and also to carry out the same purpose by a systematic course of private tuition."

One Fellowship is attached to the department of Classics, one to the department of Mathematics and Natural Philosophy, and one to the department of Mental Philosophy, including Logic, Moral Philosophy, and English Literature.

The Senate have issued the following regulations for the competition for these Fellowships :—

1. In the department of Classics there shall be one Fellowship competed for in October, 1875, and thereafter at intervals of four years (1903), the period for which the Classical Fellowship shall be ordinarily tenable.

2. In the department of Mental Philosophy one Fellowship shall be competed for in October, 1876, and thereafter at intervals of three years (1903), the period for which the Fellowship in the department of Mental Philosophy shall be ordinarily tenable.

3. In the department of Mathematics and Natural Philosophy one Fellowship shall be competed for in October, 1875, and a Fellow appointed for two years ; the Mathematical Fellowship becoming vacant in October, 1877, shall be filled up for a period of three years, the period for which the Fellowship in this department shall be ordinarily held.

In the event of a candidate being appointed to a vacancy to be filled for less than four years in the department of Classics, or for less than three years in the department of Mental Philosophy, or of Mathematics and Natural Philosophy, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than four years in all, or three years in all, respectively.

Fellows—[1] Robert D. Bell, M.A., 1899 (Classics) ; [1] Alexander Montgomerie, M.A., 1900 (Mental Philosophy) ; Roderick M. Nicol, M.A., 1901 (Math. and Nat. Phil.).

EXHIBITION (1851) SCIENCE RESEARCH SCHOLARSHIPS.—Her Majesty's Commissioners for the International Exhibition of 1851 have instituted Science Scholarships, each of the annual value of £150, and tenable for two years, subject to the scholar's first year's work being deemed satisfactory by the Scientific Committee of the Commissioners. The nomination to a Scholarship has been placed at the disposal of this University in each year since 1891, and it is anticipated that similar arrangements will be made in future years.

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[1] Vacant through lapse of time.

Candidates must be British subjects, and must have been students of Science in some approved institution or institutions for a period of three years, at least the third year of the period having been spent in this University. Capacity for original research tending to advance Science or its applications is required as the main qualification. The Scholarships may be held at any University in England or abroad, or in some other institution approved of by the Commissioners; and every scholar will, in the absence of special circumstances, be required to proceed to an institution other than that by which he is nominated. He must devote himself to some particular scientific work in connection with those branches of Science, such as Physics, Mechanics, and Chemistry, the extension of which is especially important to our national industries. A sum of £25 is reserved from the fourth half-yearly instalment, and paid by the Commissioners on receipt from the Scholar, after the expiration of his Scholarship term, of a satisfactory report of his study and research during the term.

When a nomination falls to be made in any year, due notice will be given to enable candidates to lodge their applications with the Clerk of Senate before the beginning of April. Every application must be accompanied by a statement of the scientific study (including original research) in which the candidate has been engaged, and of the work to which he proposes to devote himself if appointed to the Scholarship.

Scholar—Alexander Wood, B.Sc., 1902; Alfred Walter Stewart, B.Sc., 1903.

FERGUSON SCHOLARSHIPS.—With a view to the encouragement of the higher learning in Scotland, the trustees of the late Mr. Ferguson, of Cairnbrock, out of his legacy of £50,000 for educational and other purposes, instituted in 1860 six Scholarships, each of the value of £80 per annum, to be held for two years, and to be called "The Ferguson Scholarships."

The examination of candidates for three of these Scholarships will be held in Glasgow, on Tuesday, 22nd September next, and two following days. One of the Scholarships will be awarded for the greatest proficiency in Classics; one for the greatest proficiency in Mathematics, including Natural Philosophy; and one for the greatest proficiency in Mental Philosophy, including Logic, Psychology, Metaphysics, and Moral Philosophy.

Subjects for examination—

Classical Scholarship.—Latin Prose Composition; Latin Translation; Greek Prose Composition; Greek Translation. General—(*a*) Critical; (*b*) Greek and Latin History; (*c*) Greek and Latin Literature. Verse Composition, either in Greek or Latin; or an original Latin Essay on some subject connected with Ancient History, Literature, or Life.

Mathematical Scholarship.—*Mathematics*—Euclid's Elements. Modern Geometry. Algebra, including Determinants, Finite Differences, and Theory of Equations. Trigonometry, Plane and Spherical Analytical Geometry, in two and three dimensions. Differential and Integral Calculus, and Differential Equations.

Natural Philosophy.—Abstract Dynamics (commonly called Mechanics), including Kinematics and Statics and Kinetics of Solids and Fluids. Acoustics, Heat, Light, Magnetism and Electricity, treated both mathematically and experimentally.

Candidates will be allowed a choice of questions, and may obtain full marks by showing good general knowledge and an intimate acquaintance with any branches they may have specially studied.

Philosophical Scholarship.—*Logic.*—Province and History of Logic. Notions, Judgments, and Inferences. Recent developments of Formal Logic. Fallacies. Theory and Methods of Scientific and of Historical Proof.

Psychology and Metaphysics.—The Phenomena and Laws of Mental Life and of its Development. Theory of Knowledge. Theory of Reality.

Moral Philosophy.—Psychology and Metaphysics of Ethics. Relations of Ethics to Law, Politics, and Economics. Applied Ethics.

History of Philosophy.—History and Critical Analysis of Ancient and Modern Systems of Philosophy.

The competition will be open to all persons who have passed the Examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the Degree at the same time or not), provided that, at the time of the competition, not more than six years have elapsed since the date of their first entering a class qualifying for the M.A. Degree, and who have not already gained one of these Scholarships.

The Examinations will be conducted in writing, and the Scholarships awarded on the report of the Examiners as to the merit of the Candidates, but the minimum of 60 per cent. of the possible marks must be reached in order to entitle to a Scholarship.

The Scholarships, of £80 each per annum, are tenable for two years, subject to fulfilment of the following rule of the trustees:—

"Persons gaining the Scholarships will be expected, during the "tenure thereof, to prosecute studies in furtherance of the higher "learning; and those who have not graduated shall be required to "do so before the last payment is made."

Certificates will be granted to such of the unsuccessful competitors as, in the opinion of the Examiners, shall have taken a distinguished position in the Examinations.

Candidates are requested to give in their names, personally or by letter, at the office of THE FERGUSON BEQUEST FUND, 94 Bath Street, Glasgow, before 1st September, 1903, and due intimation will be sent to those enrolled as to the place and hours of Examination.

The following Students of the University of Glasgow have obtained Ferguson Scholarships :—

1868, James Smith, Mathematical ; 1869, Archibald B. Cameron, Philosophical ; 1870, John Cross, Classical ; 1870, James Orr, Philosophical ; 1872, Wm. W. Waddell, Classical ; 1873, Thomas H. Miller, Mathematical ; 1874, William Patrick, Philosophical ; 1875, William Y. King, Classical ; 1878, John M'A. Dodds, Mathematical ; 1878, Thomas B. Kilpatrick, Philosophical ; 1882, Robert F. Muirhead, Mathematical ; 1883, James A. M'Callum, Philosophical ; 1886, James Buchanan, Mathematical ; 1886, Andrew F. Smith, Philosophical ; 1888, Ernest F. Scott, Classical ; 1889, Evan Keri Evans, M.A., Philosophical ; 1890, Abraham Levine, M.A., Mathematical ; 1891, James Holm, M.A., Mathematical ; 1893, Horatio S. Carslaw, M.A., Mathematical ; 1897, William Boyd, M.A., Philosophical ; 1898, George D. Valentine, M.A., Mathematical ; 1899, Robert D. Bell, M.A., Classical ; 1900, David K. Picken, M A., Mathematical ; 1901, David M. Stewart, M.A., Mathematical : 1901, Alexander D. Lindsay, M.A., Philosophical ; 1902, Francis P. H. Stirling, M.A., Mathematical.

Present Holders of the Scholarships.—William Rennie, M.A., of Edinburgh University, Classics, 1901 ; David M. Stewart, M.A., of Glasgow University, Mathematics, 1901 ; Alexander D. Lindsay, M.A., of Glasgow University, Mental Philosophy, 1901 ; Alexander Duthie, M.A., of Aberdeen University, Classics, 1902 ; Francis P. H. Stirling, M.A., of Glasgow University, Mathematics, 1902 ; James A. Robertson, M.A., of Aberdeen University, Mental Philosophy, 1902.

FOULIS MEMORIAL SCHOLARSHIP.—This Scholarship was founded in 1882 in memory of the late David Foulis, M.D., Glasgow, who had distinguished himself in Pathology and Surgery, and died at the age of 35 years. It is to be awarded as often as the accumulated income from the invested funds amounts to £50. The next vacancy will take place in session 1903-4. It is tenable by a graduate or licentiate whose professional education has, to the extent of not less than two years, been received at the University or one of the extra-mural schools of Glasgow ; and who shall, in the opinion of the trustees, have manifested a capacity for original work in the department of Pathology. The purpose of the Scholarship is to assist in the prosecution of such work in one of the Medical Schools in or furth of Scotland, approved of by the trustees; and the trustees have power to determine whether it should be awarded by competition or otherwise.

The trustees are the Professor of Practice of Medicine in the University, the President and Visitor of the Faculty of Physicians and Surgeons of Glasgow, and the Pathologists of the Western and Royal Infirmaries. Further particulars may be obtained from Messrs. J. M. Taylor, Foulis & Co., 180 St. Vincent Street.

Scholar—Alexander R. Ferguson, M.D., 1901.

WILLIAM HOULDSWORTH RESEARCH STUDENTSHIP.—In March, 1898, the late William Houldsworth, merchant in Glasgow, in recognition of the distinguished services of his friend, Lord Kelvin, to the cause of scientific research, made over to the University the sum of £5600 invested in Great Eastern Railway Four per cent. Debenture Stock, to provide a Research Studentship in connection with the Faculty of Science. Candidates must be students of at least two years' standing in the University of Glasgow. The studentship is tenable for two years, and the holder must prosecute his work with diligence and regularity so as to receive from the Professor of Natural Philosophy a certificate of creditable success. A proportion, viz., four-fifths, of the annual income is payable without deduction to the Research Student for personal expenses, and the remaining fifth part, after meeting the expenses of administration, is applied in payment of laboratory expenses and materials in connection with the Research Student's work, and in payment of his matriculation fees and of the fees for such Science Classes, if any, at the University as he may attend with the approval of the Senate. The said one-fifth part of the income must be expended at the sight and to the satisfaction of the Professor of Natural Philosophy or upon orders granted by him, and the Research Student is required to furnish the Professor with a statement showing the sums so expended in each session, and also during his tenure of the Studentship. Any surplus remaining over shall be added to the principal of the fund. In the event of the Studentship falling vacant otherwise than by lapse of time, the Senate may immediately make another appointment for a period not exceeding two years, and in the event of the Senate considering it not advisable at any time to make an appointment on the occurrence either of a casual vacancy or of a vacancy in regular course, the same may be deferred, and the income thus left unused shall be added to the principal of the fund.

When a vacancy occurs, the applications of candidates must set forth the particulars required by Ordinance No. 61, Section III. See page 151.

Research Student—Dougald B. M'Quistan, M.A., 1902.

LLOYD'S REGISTER SCHOLARSHIP.—In 1889 the General Committee of Lloyd's Register of British and Foreign Shipping intimated their intention of establishing a Scholarship of the yearly value of £50, tenable for three years by students of Naval Architecture in this University. In 1893 two additional Scholarships, each of the same value and tenure of the first, were announced. They are open to competition to candidates whose age does not exceed 23 years. Each candidate must produce satisfactory evidence that £50 a year would enable him to pursue his studies, and that he would be unable to do so unless this aid were afforded. The subjects of examination are the following :—Euclid, Books I. II. III. IV. VI. and XI.; Algebra, including Quadratic Equations, the three Progressions, and Binomial Theorem ; Plane Trigonometry, with use of Logarithms; Elements of Statics, Dynamics, and Hydrostatics ; Practical Shipbuilding ; Mechanical Problems. A preference will be given to a candidate who possesses a thorough grammatical knowledge of English and of either French or German, although he may be somewhat deficient in the other subjects prescribed. One Scholarship will be open to competition in October, 1903. Names of Candidates to be sent to the Assistant Clerk (Matriculation Office) on or before 16th September, 1903.

Scholars—[1] James B. Dickie, 1900; William Dawson, 1901; Alexander Chisholm, 1902.

Luke Fellowship.—In 1863, the late William Luke, Esq., of Edinburgh, bequeathed to the University of Glasgow the sum of £3.000 sterling, "to perpetuate the memory of his nephew George Rankin Luke" (formerly a highly distinguished student of this University, and afterwards student of Christ Church, Oxford), "in such a manner as his esteemed friend, Professor Nichol, may consider most beneficial." Professor Nichol exercised the discretionary power thus conferred on him by directing that the sum bequeathed should be applied to the founding of a Luke Fellowship. The following are the regulations :—

1. There shall be a single Luke Fellowship (of about £95 per annum), tenable for three years, subject to the approval of the Senate at the end of the first and second years.

2. The Luke Fellowship shall be awarded on examination on English Literature, and on prescribed periods in History.

3. The Luke Fellowship shall be open to competition in October, 1868, and thereafter triennially.

4. Competitors for the Luke Fellowship must be Masters of Arts of this University, of not more than three years' standing; provided always that students graduating at the supplementary graduation in November of any year shall, for all purposes, be held to have graduated at the ordinary graduation in the April immediately preceding.

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[1] Vacant through lapse of time.

5. The Luke Fellowship shall not be held along with the Snell Scholarship, the Clark Scholarship, the Eglinton Fellowship, or the Euing Fellowship.

6. Students who have competed at one Luke Fellowship Examination shall not be admitted to another, nor shall the holder of the Eglinton Fellowship; but in the event of a candidate's being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the Luke Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

Ordinance No. 100 of the Universities Commission (1889) prescribes that the provisions of Ordinance No. 57 shall apply to the Luke Fellowship, but provides that it shall not be a condition of tenure of the Fellowship that the holder shall give assistance in teaching the class of English Literature.

The next competition for the Luke Fellowship will take place in October, 1904.

Fellow—Charles A. Young, 1901.

Mackay Smith Scholarships.—One in Natural Philosophy, the other in Chemistry, each of the annual value of £48, and tenable for two years in the Universities of Edinburgh and Glasgow alternately. During sessions 1882-83 and 1883-84 they were held in the University of Edinburgh, and during sessions 1884-85 and 1885-86 in the University of Glasgow. The next examination will be held in this University at the close of session 1904-5. Candidates must have already attended, or must be then attending the class of Natural Philosophy or Chemistry respectively. The Scholarship in Chemistry will be awarded on an examination held at the same time and of the same scope as the Final Science Examination in that subject for the Degree of B.Sc. in Pure Science, and the Scholarship in Natural Philosophy on an examination held at the same time and of the same scope as the examination in that subject for the degree of M.A. with Honours.

Mackinnon Scholarship.—By the will of the late Sir William Alexander Mackinnon, K.C.B., LL.D., Surgeon-General of Her Majesty's Army and Director-General of the Army Medical Staff, a sum of £2000, less legacy duty, was bequeathed to this University for the foundation of a Scholarship. The Scholarship is to be awarded to the person who shall in each year show the greatest proficiency in a competitive examination in (1) Geology, (2) Natural History (with Comparative Anatomy), and (3) Modern Foreign Languages, the examination in each subject to be held every third year. The subjects are to be taken in rotation, commencing in such order as the University authorities shall determine. In the event of the Scholarship not being awarded in any year, the amount of the Scholarship with any accumulations shall be added to the amount to form the Scholarship in the same subject on the recurrence of the examination therein.

The following are the regulations :

1. The rotation of subjects shall be as follows :—Modern Foreign Languages at the Autumn Degree Examination, 1903, Natural History (with Comparative Anatomy) in Autumn, 1904, and Geology in Autumn, 1905, and so on thereafter.

2. The examination in Modern Foreign Languages shall be the same, and shall be held at the same time as the examination for Degrees in Arts with Honours in Modern Languages.

3. The examinations in Natural History (with Comparative Anatomy) and in Geology shall be the same and held at the same time as the Final Science Examination in these subjects for the Degree of B.Sc.

4. The holder of the Scholarship in one year shall be eligible for reappointment the next year, provided he is found qualified on examination in the subject for that year ; provided also that no candidate shall hold the Scholarship more than once in any subject.

5. The order of merit shall be fixed by the examiners at each examination, but no appointment in the Science subjects shall be made unless the candidate highest on the list shall have obtained at least 65 per cent. of the attainable marks.

6. Should the Mackinnon Scholarship in Geology fall vacant at the same time as the Baxter Demonstratorship, the two appointments may be held concurrently.

Subject to these regulations, an appointment falls to be made after the examinations in September-October, 1903, to the Scholarship in Modern Foreign Languages.

Scholar—[1] Frederick Mort, 1902 (Geology).

METCALFE FELLOWSHIP.—Founded by the late Miss Sarah Metcalfe, Glasgow. (See under Metcalfe Bursaries, p. 319.)

The following are the regulations of the Metcalfe Fellowship :—

1. There shall be a Fellowship on the Metcalfe Foundation of the annual value of £100, tenable for three years, to be competed for in October, 1872, and thereafter triennially (1905).

2. Candidates must be Masters of Arts with Honours in the Group of Mathematics and Natural Philosophy, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall for all purposes be held to have graduated at the ordinary graduation in the April immediately preceding.

3. The examination shall be the examination for the Degree of

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[1] Vacant through lapse of time.

Master of Arts with Honours in the Group of Mathematics and Natural Philosophy.

4. The Fellowship shall be held subject to the condition of pursuing in the University of Glasgow a course of study in such of the following subjects—viz., Higher Mathematics, Astronomy, Civil Engineering, and Chemistry—as the Senate shall in each case prescribe.

5. The Metcalfe Fellowship shall not be held along with the Eglinton Fellowship, the Snell Scholarship, or the Breadalbane Scholarship; and the holder of the Eglinton Fellowship shall not be allowed to compete for the Metcalfe Fellowship; but in the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

Fellow—Robert A. Houstoun, M.A., 1902.

REID STEWART FELLOWSHIP.—Mr. James Reid Stewart, Ironmaster, Glasgow, who died on 8th August, 1896, directed his Trustees to pay a legacy of £2000, under deduction of legacy duty, to the Senate, the free income of which is to be applied in and towards a Fellowship to be called the Reid Stewart Fellowship.

The following are the regulations:—

1. Candidates must be Masters of Arts who have taken the Degree of M.A. with Honours in either the Group of History or the Group of Economic Science, or be students presenting themselves for the final examination for the M.A. Degree with Honours in either of these Groups. The Fellowship shall alternate between History and Economic Science, beginning with History and giving three years to each.

But no student shall be admitted to the examination after the expiry of more than three winter sessions from the time of his completing the course necessary for the Degree of M.A. with Honours in either of these Groups.

2. The papers set in the examination shall be the same as the papers set for Honours in these Groups at the October examinations for Degrees in Arts, and the Examiners shall be the Examiners for the Degree of M.A. with Honours in these Groups. The Fellowship will be awarded for excellence in one Group, but not in both.

3. The Fellowship shall be tenable for three years, subject to the condition that the holder give his time and attention to the prosecution of his studies with a view to one of the learned professions or to such professional or business avocation as may be approved of by the Senate.

4. In the event of a vacancy occurring otherwise than by lapse of time, it shall be in the power of the Senate to appoint, after competition under the same conditions as above, either for the unexpired period of the vacated Fellowship or for the full period of three years. If the Fellowship is offered for a period of less than three years, the conditions of competition and tenure shall be the same as those stated above, provided that no student shall be excluded from the competition who was eligible when the Fellowship was last offered for three years.

5. In the event of the Examiners reporting in any year that no candidate has done sufficiently well to deserve the Fellowship, no appointment shall be made on that occasion, but the Fellowship shall be offered for competition in the following year under the same conditions as in the case of a vacancy occurring otherwise than by lapse of time.

6. It shall not be competent for the holder of the Reid Stewart Fellowship to hold any other Bursary, Scholarship, or Fellowship in this University, without the special leave of the Senate. The next competition will take place in October, 1905, and the examination will be the examination for Honours in the Group of History.

Fellow—Stanley H. Turner, M.A., 1902 (Economic Science).

SANDFORD SCHOLARSHIP.—Founded in 1862 (by the investment of a sum of £520, raised by subscription), in memory of Sir Daniel K. Sandford, the eminent Professor of Greek in this University, who died in 1838. It is tenable for two years, and is awarded to the student who, on examination, gives proof of the greatest proficiency in the Greek language. Value about £20 per annum.

The examination of candidates for this Scholarship takes place every alternate year in the month of April (1904), and is open to all matriculated students (not Masters of Arts) who have attended the Public Greek Classes for not less than two sessions.

The subjects of examination are selected from the following authors:—Homer, 12 books; Herodotus, 4 books; Sophocles, 3 plays; Thucydides, 4 books; Æschylus, 3 plays; Demosthenes, one or more orations; Aristophanes, 3 plays; Xenophon's *Memorabilia*; Pindar; Plato, one or more dialogues.

Candidates are examined on not more than four of the above-mentioned authors (of which Homer is always one)—two in prose and two in verse; and the subjects for each examination are given out by the examiners at the end of the session previous to that in which the examination takes place. Candidates are also examined on Translations from Greek into English, with Criticisms, and Translations, in prose and verse, from English into Greek.

The subjects for April, 1904, will be:—Homer, *Iliad*, i.—xii.; Æschylus, *Oresteia*; Thucydides, v.—viii.; Plato, *Symposium* and

Phaedrus; Unseen Translation; Prose Composition, and Verse if any candidate offers it.

Scholar—John MacInnes, 1902.

(SIR WALTER) SCOTT SCHOLARSHIP—(See under head "Scott Bursaries," p. 329).—This Scholarship, in value £80 per annum, is open for competition to Masters of Arts in the University of Glasgow of not more than three years' standing, having graduated with Honours in Classics or in Mental Philosophy, or to students who, at the time of competition, are presenting themselves for the final examination in the said University for the M.A. Degree with Honours in Classics or in Mental Philosophy. The examination to be in Classics, Mental Philosophy, and English Literature, which may include History. The Scholarship is tenable for two years, and the holder is required to follow such a course of study in the University of Glasgow, or give such assistance in the teaching work of the University as the Senatus Academicus may determine. The Scott Scholarship is not to be held along with any other Scholarship, Fellowship, or Bursary of the University of Glasgow. "The subjects of examination for the said Scholarship shall be, with the addition after-mentioned, Classics, or Mental Philosophy, or both of these, the special subjects being those for the examination for the M.A. Degree with Honours in the given department or departments for the year, and in addition to the examination above-mentioned the competitors for the said Scholarship shall undergo an examination in English Literature of a higher kind than that required for an ordinary pass." The Scholarship will be open to competition in October, 1904. The examination will be in Mental Philosophy and in English Literature (not Language) from Chaucer downwards.

Scholar—William H. Coats, M.A., 1902.

SHAW PHILOSOPHICAL FELLOWSHIP.—This Fellowship was founded by subscription in 1867, in the University of Edinburgh, in memory of Sir J. Shaw, Bart., who was born at Mosshead, in the Parish of Riccarton, and County of Ayr, in 1764, was elected Lord Mayor of London in 1805, and M.P. for the same city in 1806, and after a long and distinguished career, died in London in 1843; and is open to the competition of the Graduates in Arts of any of the Scottish Universities. The Fellowship consists of the free proceeds of the sum of £4,100 mortified to the Senatus Academicus of the University of Edinburgh under the following conditions, namely:—

1. The said Fellowship shall bear the name of "THE SHAW PHILOSOPHICAL FELLOWSHIP," in memory of the said Sir James Shaw, Baronet.

2. The Patronage of the said Shaw Philosophical Fellowship shall belong to the said Senatus Academicus. and shall be exercised by them, subject to the conditions herein contained, for the encouragement of the study of Logic, Metaphysics, Psychology, Moral Philosophy, and the History of Philosophy.

3. The Fellowship shall be awarded by competitive examination in the subjects of Logic, Metaphysics, Psychology, Moral Philosophy, and the History of Philosophy.

4. The Fellowship shall, on each occasion of an appointment thereto, be open to the competition of Graduates in Arts of the Scottish Universities—that is to say, the University of Edinburgh, the University of Glasgow, the University of Aberdeen, and the University of St. Andrews, of not more than five years' standing at the time of the competition, and of all students of the said Scottish Universities who, although they have not graduated in Arts, shall yet have successfully passed the last of the examinations necessary for such graduation in Arts, within the period of five years before the time of the competition; and the said Senatus of the University of Edinburgh, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the University of Edinburgh, shall have power either to increase or to reduce the number of years of standing as graduates, or as students who have passed all the examinations necessary for graduation, as above fixed, for competitors for the Fellowship.

5. The Fellowship shall be tenable for five years only, but the said Senatus Academicus of the University of Edinburgh shall have power, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the said University of Edinburgh, to extend, with reference to all holders of the Fellowship, the term of tenure to any period of years not exceeding ten, if, in the course of time, it shall appear to them desirable to do so, from an increase in the number of foundations of a similar kind in the University of Edinburgh, or in the other Scottish Universities, or other sufficient reason.

6. The competitive examination for the said Fellowship shall, except in the case below provided for, be conducted by two Examiners, to be appointed in the manner following—to wit, one of the Examiners shall be appointed by the Senatus Academicus of the University of Edinburgh, either from among the members of the said Senatus or others, as they may think proper, and the other Examiner shall be appointed by the Senatus Academicus of one of the other Scottish Universities in rotation.

7. The said Examiners, so appointed, shall report their opinion of the result of the examination to the Senatus Academicus of the University of Edinburgh, who shall, as Patrons of the said Fellow-

ship, appoint thereto the candidate who appears by the report to be best qualified by proficiency in the subjects of Logic, Metaphysics, Psychology, Moral Philosophy, and the History of Philosophy, provided that, as required by the clause next following, such best qualified candidate shall, in the opinion of both the Examiners, have manifested a sufficiently high degree of proficiency to merit the Fellowship.

9. Each holder of the said Fellowship shall, during his tenure thereof, be entitled to receive the annual proceeds of Four Thousand One Hundred Pounds, and of any addition of the said sum which may hereafter be made thereto, as after-mentioned, after deducting all reasonable expenses, including the payment of remuneration to the Examiners appointed as aforesaid.

12. It shall not be competent for any person to hold the said Fellowship along with any other Fellowship, Scholarship, or Bursary, in any Scottish University, or appropriated to the students of any Scottish University or Universities.

17. It shall be in the power of the Senatus Academicus of the University of Edinburgh to require the holder of the Shaw Philosophical Fellowship during the fourth or fifth year of his tenure of it, to deliver in the University of Edinburgh a Course of Lectures, not exceeding four, on any of the subjects for the encouragement of the study of which the Fellowship has been founded; and notice shall be given to the holder of the Fellowship twelve months previously to the time fixed for the delivery of the said Lectures that he is required to deliver them; but the said Senatus, with consent of the University Court of the University of Edinburgh, shall have power to alter the number of Lectures, if it shall be found desirable to do so.

The Fellowship will be open to competition in December, 1903. The Examinations will be held in the University of Edinburgh on the 21st December and the three following days, from ten till one and from two till five o'clock on each day. Candidates must announce their names and addresses, with evidence that they have fulfilled the required conditions, to the Secretary of the University, Edinburgh, before 14th December, 1903.

Present Fellow—[1]J. B. Baillie, M.A. (of Edinburgh University), 1899.

SNELL EXHIBITIONS.—In the year 1677, Mr. John Snell of Uffeton, in the County of Warwick, a native of Scotland, and formerly student in this University, devised to trustees a considerable estate near Leamington, in Warwickshire, for educating Scottish students at Oxford.

The Exhibitioners are now elected under a scheme settled in the Court of Chancery in 1872. Under the provisions of this scheme it was then arranged that the number of Exhibitions should be limited to fourteen, it being lawful to elect three in each year, unless the number on the Foundation should thereby be increased beyond fourteen, in which case not more than two were to be elected, the Exhibition being tenable for five years ; but by an agreement of date 2nd April, 1878, under provisions of the same scheme, the following regulations were sanctioned :—

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[1] Vacant through lapse of time.

1. The stipend of each Exhibitioner admitted to the foundation after the 31st day of December, 1878, shall be £132.

2. Until the 31st day of December, 1880, the greatest number of Exhibitioners shall be twelve.

3. During the year from the 31st day of December, 1880, to the 31st day of December, 1881, the greatest number of Exhibitioners shall be eleven.

After the 31st day of December, 1881, the greatest number of Exhibitioners shall be ten.

The number of ordinary Exhibitioners it shall be lawful to elect in each year shall be three, unless the number on the foundation for the time being would be thereby increased beyond the greatest number for the time being permitted by this agreement, in which case not more than two shall be elected.

By a subsequent agreement of date 21st January, 1886, the following modifications were made :—

1. The value of the Snell Exhibitions shall be reduced to £80 a year.

2. They shall be held, as heretofore, for five years, but the whole sum of £400 will be paid to each Exhibitioner during the first three years of his tenure in equal annual sums, but a moiety of the last annual payment shall be kept back, if the authorities of Balliol College think fit, until the Exhibitioner shall have taken his Degree.

Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided[1] as Undergraduate Students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland." "No candidate shall be admitted to examination who shall be a member of the University of Oxford of more than one year's standing from the day of his matriculation inclusive ; and no candidate shall be admitted to examination more than once after he shall have completed his 23rd year ; but a candidate otherwise qualified shall not be excluded from examination on the ground that he is a graduate of any Scotch University."

Candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than 1st

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[1] By Resolution of date December 13th, 1866, the Senate determined that "Residence" shall, for the purpose of the Snell Trust, be constituted by regular attendance as a public student for the complete winter session on not less than two of the classes in the curriculum for the Degree of Arts.

December, 1903. The next examination will be held in April, 1904, on the same days and at the same hours as the Examinations for the Degree of M.A. with Honours, the English paper being taken on Saturday, 2nd April, at 9 A.M.

The subjects of examination are as follows:

IN LATIN, GREEK, LOGIC, MORAL PHILOSOPHY, AND HISTORY. The subjects of examination for the Degree of M.A. with Honours.

IN NATURAL PHILOSOPHY AND MATHEMATICS.—The subjects of examination for the Ordinary Degree of M.A., and higher subjects which any candidate may express a wish to be examined in.

Candidates are requested to take notice that they are not required to attend the examination in more than one of the four groups, viz.: Classics, Mental Philosophy, Mathematics and Natural Philosophy, and History; that a candidate may be appointed for decided excellence in any one department alone; and if such excellence in some one of the departments be not displayed by three of the candidates, the Senate will either appoint a candidate who has shown sufficient proficiency in several departments, or will abstain from making three appointments. All candidates, however, will be required to write an English Essay on a subject prescribed at the time. Candidates who do not offer Classics will be required to show such a knowledge of Latin and Greek as to prove their ability to pass Responsions at Oxford.

Exhibitioners—Archibald Main, 1899; George H. Stevenson, 1900; Peter Hately Waddell, 1901; Matthew Stewart, 1902; Charles G. Nelson, 1903.

THOMSON EXPERIMENTAL SCHOLARSHIPS.—Three Scholarships, in value about £20 each, for the promotion of Experimental Research, founded by Sir William Thomson (now Lord Kelvin), LL.D., D.C.L., Professor of Natural Philosophy in the University, by letter to the Principal of date September 6th, 1869, in which, after referring to "the liberal and friendly spirit which had been shown him by his colleagues in respect to his connection with telegraphic enterprise," and the "facilities for experimenting which the College had afforded him," he states that "he wished to mark his sense of these benefits by setting aside something of what he had received to assist in promoting the cultivation of experimental investigation in Glasgow University," and for this purpose offered for the acceptance of the Senate the sum of £1,000.

The scholars are appointed by the Senate on the recommendation of the Professor of Natural Philosophy from among students who have previously shown their zeal and ability in Experimental Investigations in the Physical Laboratory, and they are required to engage in the continual prosecution of Experimental Investigations in the Laboratory for not less than nine months of the year, to the satisfaction of the Professor of Natural Philosophy. These Scholarships may be held along with any other Bursary, Scholarship, or Fellowship.

Scholar for 1903-4—James Hunter.

James Watt Scholarship.—In 1808, James Watt, LL.D., presented the College with a perpetual annuity of £10, for the institution of a prize, to be awarded to the author of the best Essay on some subject in the following branches of study, to be taken in rotation:—1. Any branch of Mechanics or its dependent Arts. 2. Statics, and the Machines and Arts dependent. 3. Pneumatics, Statical or Chemical, Machines and Arts. 4. Hydraulics, Hydrostatics, their Machines and Arts. 5. Chemistry, its Arts and Apparatus. All actual students who had completed, or who, at the end of the session in which the Prize fell to be awarded, should have completed a regular course of study in Languages and Philosophy, might be competitors. By Ordinance No. 93 of the Universities Commission (1889), issued on 15th February, 1895, and approved by Her Majesty in Council on 13th August, 1895, it was provided that the Watt Prize should be discontinued, that the funds should be allowed to accumulate for four years from the date of the Ordinance, and that thereafter a James Watt Scholarship in Engineering should be established.

The Scholarship is awarded by the Senate, on a special report by the Faculty of Science, to a Bachelor of Science of distinction of not more than two years' standing. It is tenable for two years, and the James Watt Scholar is required to pursue during his tenure special higher studies in the Engineering Laboratory, under the direction and to the satisfaction of the Professor.

Scholar—[1]Alfred J. Wilson, 1901.

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[1] Vacant through lapse of time.

3.—*PRIZES.*

Besides the class Prizes, and a number of Prizes given by the different Professors for particular kinds of merit, there are others which the generosity of public-spirited individuals has founded for the encouragement of learning in the University.

The names of the Prizemen for Session 1902-1903 will be found in the Degree and Prize List.

INDEX.

FOUNDATION.	NATURE OF PRIZE.	AWARDED FOR
Arnott, - - - - -	£25 and £15,	Examinations.
Brunton Memorial, -	£10,	Do.
Buchanan (3), - - -	Books.	Do.
Burnet, Lindsay, - -	Silver Medal.	Research.
Cleland, - - - - -	Gold Medal,	Examinations.
Cleland & Rae Wilson,	Four Gold Medals.	Do.
Cobden, - - - - -	£20 and Silver Medal (triennial),	Essay.
Coulter, - - - - -	Two at £5 each,	Essays.
Cowan, - - - - -	Three Gold Medals,	Examinations.
Cunninghame, - - -	Gold Medal,	Do.
Dickson Prize, - - -	Books,	Do.
Dobbie-Smith, - - -	Gold Medal (biennial),	Essay.
Dowanhill, - - - -	£20 and £10,	Elocution.
Ewing, - - - - -	Gold Medal (biennial),	Essay.
Findlater, - - - - -	£38,	Examination.
Gartmore, - - - -	Gold Medal (biennial),	Essay.
Gladstone Historical -	£21 (biennial),	Examination.
Gladstone Memorial, -	£5 in Books,	Do.
Harvey, George, - -	£14,	Do.
Henderson, - - - -	£21,	Essay.
Jamieson, - - - -	£10,	Examination.
Jeffrey, - - - - -	Gold Medal,	Do.
Kirk Memorial, - - -	£14,	Do.
Logan, Thos., Memorial,	Gold Medal and £12,	Do.
Luke Historical, - -	£9 (biennial),	Do.
Macfarlan and Cook, -	£21,	Do.
Macleod, - - - - -	Gold Medal,	Do.
Muirhead, - - - -	Books,	Do.
Muirhead, G. Roger, -	£2 5s.,	Do.
Nichol Memorial, - -	Books,	Do.
Reid, John, - - - -	£25,	Original Research.
Ross, Robert (2), - -	Med., books, or money,	Examinations.
Scott-Macfarlan, - -	Gold Medal,	Examination.
University, - - - -	Silver Medal,	Essay.
Walker (4), - - - -	Books, etc.,	Examinations.

ARNOTT PRIZES.—Founded in 1869, by Dr. Neil Arnott of London, who presented to the Senate the sum of £1,000 to found a Prize, or Prizes, for the encouragement of the study of Natural Philosophy among the Medical students of the University.

By resolution of the Senate of date April 10, 1873, the following regulations were adopted :—

1. That there shall be two separate examinations—one in General Physics, for students of the first and second years of their Medical studies; the other for students of the third and fourth years, in Physiological Physics, or the application of the doctrine of General Physics to Physiological Science.

2. The knowledge required for the second of these examinations being much more extensive, and of a much higher order than that required for the first, and being the kind of knowledge of which it is most important to encourage the cultivation, as not only useful in the practice of the Medical Art, but eminently fitted to advance the Physiological Sciences; that a sum of not less than Twenty-five pounds be offered annually, in one or several sums, as circumstances may require, to the student or students who excel in the second examination.

3. That the remaining portion of the revenue derived annually from Dr. Arnott's donation be offered in the same way to the student or students who excel in the first examination.

4. That the first examination be under the superintendence of the Faculty of Arts, with the Professors of Physiology and of Anatomy as Assessors.

5. That the second examination shall be under the superintendence of the Medical Faculty, with the Professors of Natural Philosophy and of Mathematics as Assessors.

6. That all candidates shall, at the commencement of each session, intimate their intention to the Assistant Clerk (Matriculation Office); and that, to prevent unqualified persons from coming forward, each candidate shall produce satisfactory evidence of his having attended a Course of Lectures on Natural Philosophy, or of having been a pupil in a Laboratory where Practical Physics or Practical Physiology is taught; or, failing of these qualifications, he shall deposit the sum of ten shillings, which shall be forfeited if his examination marks fall below the average standard.

7. That every candidate who passes creditably the first examination shall be thereby entitled to come forward for the second, without being obliged to deposit the sum of ten shillings.

8. That no prize shall be awarded without sufficient merit being shown, and that in the event of one or more of the prizes on any occasion not being awarded, the amount shall be added to the principal sum.

The examination will be in writing, and will be held on Saturday, the 3rd October, 1903, in the Examination Hall, at 2 P.M. Intending candidates to give in their names to the Assistant Clerk (Matriculation Office) on or before 16th September.

BRUNTON MEMORIAL PRIZE.—Founded in 1879, in memory of the late Duncan M. Brunton, M.A., M.B., Paisley, a distinguished graduate of this University, who died on 16th November, 1876, of fever, contracted in the diligent discharge of his professional duties in the Royal Infirmary of Paisley. The Committee of Subscribers paid over to the Senate the sum of £300, the interest of which is to be given annually to the most distinguished graduate in Medicine of the year.

BUCHANAN PRIZES.—A Bursary was founded in 1866, in recognition of the eminent services of Robert Buchanan, LL.D., as Professor of Logic and Rhetoric in the University during the long period of forty years. The fund consists of a sum of £314 raised by subscription. The Buchanan Bursaries having been founded under the Will of Professor Buchanan, the proceeds of this fund are now, with the sanction of the subscribers, applied to the purchase of books, which are annually awarded to the most distinguished students in the classes of Logic, Moral Philosophy, and English Literature.

LINDSAY BURNET SILVER MEDAL.—In 1901 the relatives of Mr. Lindsay Burnet, Engineer in Glasgow, who died on 14th March, 1895, founded this Medal to his memory, and also as a memorial of the respect which he entertained for Archibald Barr, D.Sc., Professor of Civil Engineering and Mechanics, and for his work in the University. The following are the regulations:—

The Medal shall be awarded to a student in regular attendance at the University for a thesis descriptive of a research upon a subject connected with The Properties or the Utilisation of Fuel, The Generation or Properties of Steam, The Principles of Thermodynamics, or The Operation of Heat Engines.

The research shall be conducted by the candidate in the Engineering Laboratories of the University, but in exceptional cases investigations requiring the use of machines or apparatus not provided in the Laboratory may be conducted in part elsewhere under such conditions as may in each case be sanctioned by the Professor of Engineering.

The Professor of Engineering may sanction the employment of such assistance, if any, as he may in each case deem necessary for the efficient carrying out of the research, and shall regulate the use of apparatus belonging to the University as regards the time when it shall be at the disposal of the candidate and the manner in which it may be employed.

The Senate shall from time to time issue regulations regarding the standing of students who shall be eligible to compete for the Medal, the form which the theses shall take, the date on or before which the theses must be submitted, and other details.

The Medal shall be awarded by the Senate after receiving a report from the Professor of Engineering and any assessor or assessors whom the Senate may have appointed to act with him.

The Senate may withhold the Medal in any year in which, in their opinion, no thesis of sufficient merit has been submitted.

The Professor of Engineering shall have the power to prescribe a particular subject or to limit the range of subjects upon which theses may be presented in any year; and, farther, with a view to avoiding any undue interference with other researches, or with the general routine work of the Laboratory, he shall have power to prescribe the particular subject or range of subjects with which any individual candidate may deal.

The theses shall become the property of the University, and may be preserved in the Engineering Departmental Library or elsewhere as the Senate may direct, and the Senate may grant to students or others access to the theses under such conditions as they may from time to time prescribe. At all reasonable times the candidate shall have access to his own thesis for reference.

All results obtained in researches conducted in competition shall be subject, as regards rights of publication, to the general conditions applicable to work done in the University by research students and to any special regulations that may be made relating to work conducted in the Engineering Laboratory.

Should any new Chair or Chairs in Engineering Science be instituted in the University, the Professor whose laboratory courses are, in the opinion of the Senate, most closely identified with the general application of thermodynamics to engineering practice shall be deemed to be the Professor of Engineering for the purposes of this foundation.

CLELAND AND RAE WILSON GOLD MEDALS.—Dr. James Cleland, Superintendent of Public Works in Glasgow, who died 14th October, 1840, founded a Gold Medal of the value of Ten Guineas, to be bestowed in alternate years on a student of Divinity, and a student of Natural Philosophy, as a prize for the best Essay on any subject to be prescribed by the Principal and Professors of the University.

Dr. William Rae Wilson of Kelvinbank, who died 2nd June, 1849, founded a Gold Medal to be bestowed upon the Divinity student who should produce the best Essay on the Life of Christ.

These foundations are now regulated by Ordinance No. 97 of the Universities Commission (1889). The Cleland Gold Medal, not exceeding ten guineas in value, is awarded to the most distinguished student in the class of Natural Philosophy in each year. The remainder of the free income of the Cleland Foundation is added to the total free income of the Rae Wilson Foundation, to provide four Gold Medals of equal value. These medals are awarded in each year as follows:—One to the most distinguished student in each of the classes of (1) Divinity, (2) Ecclesiastical History, (3) Hebrew and Semitic Languages, and (4) Divinity and Biblical Criticism. In the event of there being no student of sufficient distinction in any of these classes, the proportion of the income for that year may be applied towards the promotion of theological study in such manner as the Senate may decide.

COBDEN PRIZE.—This prize of the value of £20, together with a silver medal, will be offered by the Cobden Club, London, every third year for an essay on some subject connected with political economy. The subject is to be fixed by the two adjudicators, one of whom is appointed by the University and the other by the donors. Members of the University of not more than six years' standing may be competitors. The prize will be awarded in 1905 and thereafter triennially.

COULTER PRIZES.—In 1787 Mr. James Coulter, merchant in Glasgow, bequeathed £200 to the University, "the annual proceeds to be applied in premiums, one or more, either pecuniary or honorary, for the encouragement of Composition and Elocution, upon subjects of the Faculty's choosing." The interest of this sum is now divided into Two Prizes of £5 each; the one to be given in alternate years for a Sermon or Theological Essay, and for an Essay on Mental Philosophy and English Literature, the other to be given annually for a translation from some Classical Author, or other composition connected with Classical Literature. The competition for these prizes is open to all matriculated students of the University.

COWAN GOLD MEDALS.—In 1836 Dr. Cowan of Sunderland presented to the University the sum of £400, the interest to be applied annually in the purchase of Two Gold Medals of the value of about £10 each, to be awarded to the two students who may distinguish themselves most in the Greek and Latin Examination upon the Blackstone; and shortly afterwards (1839) the same gentleman presented the University with an additional sum of £105, the interest to be expended annually in the purchase of a Gold Medal of the value of £5, to be awarded to the best student in the Humanity Class.

The examination for Dr. Cowan's Blackstone Medals will be held early in November, 1903. Competitors to be eligible must be public students in some curriculum class in the Faculty of Arts.

For the Greek Medal—1. A candidate must have received a Certificate in the Greek Class for session 1902-1903.

2. Every candidate will be required to answer a Preliminary Paper, consisting of unprepared passages for translation.

3. Two or more candidates, selected by this paper, will on a subsequent day be examined orally in the books which they offer.

4. Each selected candidate must offer for the Oral Examination (i.) one Verse Subject, (ii.) one Prose Subject. (i.) The Verse Subject must be *either* five books of Homer, *or* two Greek plays (tragedies or comedies). (ii.) The Prose Subject may be any *one* of the following :—(*a*) Herodotus—two books ; (*b*) Thucydides—two books ; (*c*) Plato—two dialogues, or two books of the *Republic ;* (*d*) Aristotle—two books of the *Ethics*, of the *Politics*, or of the *Rhetoric*.

5. Any member of the Greek Class for session 1903-4 is at liberty to go in for the Preliminary Paper, even though he is not a candidate for the Cowan Medal ; and if he acquits himself with distinction in that paper, his name will be mentioned when the award of the Medal is announced.

For the Latin Medal competitors must in the session preceding the competition have received a public ticket of the Latin Class.

Notice is hereby given, that at the examination for Dr. Cowan's Medals in November, 1892, and thereafter, no one will be admitted to compete for the Greek Cowan Medal who has attended for more than three sessions, or who, after passing the preliminary examination in Greek, has attended for more than two sessions in any Scottish University, and no one shall be admitted to compete for the Latin Cowan Medal who has attended for more than two sessions, or who, having been admitted to the Senior Class in consequence of having passed the preliminary examination in Latin, has attended for more than one session in any Scottish University.

CUNNINGHAME GOLD MEDAL.—In 1886 Mr. Andrew Cunninghame, Town Clerk Depute of Glasgow, bequeathed to the University, *inter alia*, £350, free of legacy duty, with directions that the annual revenue thereof should be applied in purchasing a Gold Medal as a prize in the class of Mathematics.

DICKSON PRIZE.—In 1895, when the late Professor Dickson retired from the Chair of Divinity, his former students presented him with a testimonial consisting of silver plate and a cheque for £120. This sum was handed over by Dr. Dickson to the University Court, that the free annual income might be applied in the form of a prize of serviceable books to accompany the gold medal given to the most distinguished student of the year in the class of Divinity. In accordance with the wish of the subscribers the prize has been called the Dickson Prize.

DOBBIE-SMITH GOLD MEDAL.—In 1881 Mr. Thomas Smith, L.R.C.S.E., Heriot Hill House, Edinburgh, presented to the University, in memory of his wife, lately deceased, the sum of £150 for the purpose of founding a University Gold Medal of about £10 in value, to be given biennially for the encouragement of the study of Botany. The competition is open to all Matriculated Students of the session in which the Medal is to be awarded ; the subject of competition—

which shall always be a Botanical subject—to be selected by the Professors of Botany and Natural History, and announced at least eighteen months before the date fixed for receiving essays.

The next competition to be on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and each essay to be accompanied by an illustrative series of macroscopic and microscopic specimens. Essays to be given in to the Principal on or before 30th September, 1903.

DOWANHILL PRIZES.—Two prizes, one of £20, and the other of £10, for "Excellence in the Art of Oratory and Declamation, and in the practice of a refined and pleasing Delivery, and in reading the Scriptures," founded in 1865 by Mr. John Buchanan, merchant in Glasgow, as sole Trustee, nominated and appointed by his deceased brother, Mr. Thomas Buchanan, also merchant in Glasgow, and in order to carry out the intentions of his said brother. These prizes are awarded annually to Students of Divinity, at the termination of the third or fourth session of their attendance on the Hall, by the votes of their fellow-students. Competitors must have attended for two sessions an Elocution Class, taught by a master approved by the Senate.[1]

The above foundation is in memory of the late Mr. James Buchanan of Dowanhill, of Ellison MacCallum, his wife, and of Mr. George Buchanan of Stanley, Perthshire, the Father, Mother, and elder Brother of the Founder.

EWING GOLD MEDAL.—In 1828 James Ewing, LL.D., of Levenside, presented the University with £100 for a Gold Medal to be given every second year for the best essay on an historical subject. The Gartmore and Ewing Medals are to be given alternately.

FINDLATER (DIVINITY) SCHOLARSHIP OR PRIZE.—This Scholarship, consisting of the free annual proceeds of the sum of £1,000 gifted to the Senate by Mr. Alexander Findlater, Dublin, was founded in 1871. The following regulations have been adopted by the Senate:—

1. The Findlater Scholarship shall be awarded annually by competition.

2. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

3. The competition shall be open to all students of Divinity in this University who shall complete the ordinary course at the close of the session in which the examinations are held.

The next competition will take place in October, 1903, and April, 1904. Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 14th October, 1903.

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[1] See note under Faculty of Theology, *supra*.

Gartmore Gold Medal.—In 1788 Mr. Robert Graham of Gartmore presented the University with £100 for the institution of a Prize for the best essay on any subject intimately connected with the nature, foundation, advantages, and support of political liberty. This Prize—a Gold Medal—is open to the competition of all students of the University, and is given biennially. The founder directed that the surpluses should be accumulated till a capital was formed sufficient to found a Bursary.—See Gartmore Bursary, p. 294.

Gladstone Historical Prize.—Founded in 1880 by the Gladstone Club, in commemoration of the election in 1877 of the Right Honourable William Ewart Gladstone, M.P., as Lord Rector of Glasgow University, and in recognition of his distinguished career as a scholar, author, statesman, and orator. The following are the regulations:—

1. The prize shall be given for the best examination in English History.
2. The examination shall be held biennially.
3. The value of the Prize shall be Twenty Guineas.
4. The competition shall be open to Graduates of Glasgow University of not more than two years' standing from the date of their first graduation. The next competition will take place in January, 1904. Names of competitors to be given in to the Assistant Clerk (Matriculation Office) not later than 1st December, 1903.

Gladstone Memorial Prize.—In November, 1899, the Committee of the Gladstone Memorial Fund resolved to devote the revenue accruing from the surplus of the Fund to the establishment of Gladstone Memorial Prizes to be given in Books at the Universities of Oxford, Cambridge, and London, at the Scottish Universities, and the University Colleges in Great Britain, for special proficiency in History, Political Science, and Economics. In this University the prize, in value Five Pounds, will be awarded annually. Either graduates of this University who have taken the degree of M.A. with Honours, or students presenting themselves for examination for the Degree of M.A. with Honours in Economic Science, may be candidates; but no student shall be eligible after the expiration of more than six winter sessions from the time of his or her first entering a class qualifying for the Degree of M.A., and no student who has once obtained the prize may compete a second time. The subjects of examination shall be the same as those prescribed for Honours in Economic Science, and the examination shall be held at the same time as the autumn examination for Degrees with Honours in Economic Science. The Prize is awarded by the Senate on the report of the Examiners for Degrees, and it is competent for the Senate to award it to the holder of a Fellowship, or Scholarship, or Bursary. The Prize will be open to competition in October, 1903.

GEORGE HARVEY PRIZE.—Founded in 1874, by the liberality of a donor who has withheld his name, in memory of the late Mr. George Harvey of No. 9 Park Quadrant, Glasgow. Present annual value £14, which is given as a prize in the class of Civil Engineering, to the student who shows, during the session, the greatest proficiency in the department of applied Mechanics and Shipbuilding. Any accumulation of surplus income to be given as a second prize of £5 or £10 in the same department.

HENDERSON PRIZE.—In 1850 Mr. John Henderson of Park, merchant in Glasgow, instituted an annual prize of the value of £21 sterling, to be called the "Henderson Prize," for the best Essay on some subject relating to the Divine Authority and Practical Value and Influence of the Sabbath. The Universities Commission (1889), by Ordinance No. 101, altered the conditions and directions affecting this prize. It is now to be awarded for the best essay on a subject to be fixed by the Faculty of Divinity, provided always that in every third year at least, the subject shall relate to the Divine authority and practical value and influence of the Sabbath. The competition is to be open to Masters of Arts of not more than five years' standing, as well as to matriculated students of the University.

JAMIESON PRIZE.—In 1854 a subscription list was opened for the foundation of a prize or scholarship in Divinity, but the commercial difficulties of the following years prevented the purpose of the promoters being carried out at the time. In 1881 the sum subscribed, amounting, with accumulated interest, to £319 6s. 4d., was handed over to the University, and the Senate resolved to connect it with the name of the Convener of the Committee of subscribers, the Rev. Robert Jamieson, D.D., formerly minister of St. Paul's Church, Glasgow.

The following regulations have been adopted by the Senate :—

1. The Jamieson Prize shall be awarded annually by competition.

2. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

3. The competition shall be open to all students of Divinity in this University who shall complete the ordinary course at the close of the session in which the examinations are held.

4. The Prize shall not be awarded to any one who has gained a Scholarship or Fellowship in Divinity.

The next competition will take place in October, 1903, and April, 1904. Names of candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 14th October, 1903.

JEFFREY GOLD MEDAL.—Mr. Francis Jeffrey, advocate (afterwards Lord Jeffrey), on his re-election as Lord Rector of this University, in 1821, gave a prize of a Gold Medal and continued to do so annually.

In 1849 Lord Jeffrey presented the University with the sum of £120 for a Gold Medal to be awarded each session to the most distinguished student of the Greek Class.

KIRK MEMORIAL PRIZE.—A sum of £402 was collected in 1893 by various friends of the late Alexander Carnegie Kirk, LL.D., formerly President of the Institution of Engineers and Shipbuilders in Scotland, for the purpose of founding a prize in his name, in connection with the Naval Architecture Class in the University. The free annual income of the foundation is awarded annually as a prize. The competition is open to students who have, in the session of competition, attended the Senior Class of Naval Architecture, and who are completing the Final Science Examination under Ordinance No. 23, Glasgow No. 2, embracing (*a*) Naval Architecture with Marine Engineering, and (*b*) Practical Work in Ship and Marine Engineering Drawing, the award being determined by the proficiency shown in (*a*) and (*b*). Should two or more candidates be reported equal, the Senate may divide the Prize, or prescribe a further examination. The subscribers have given the Senate power to convert this Prize into a Bursary, should it be found expedient or advantageous to do so at any future time.

THOMAS LOGAN MEMORIAL MEDAL AND PRIZE.—Mr. David Logan, fruiterer, Glasgow, who died on 19th May, 1886, directed his trustees to pay to the Senate the sum of £500, free of legacy duty, to found a Gold Medal and Prize in memory of his brother, Thomas Logan. The Medal is of the value of £5, and the Prize consists of the balance of the annual proceeds given in money. They are awarded annually in April to the graduate in Arts of the preceding year who obtained the highest marks in the Degree Examinations.

LUKE HISTORICAL PRIZE.—A sum of £150 was collected in 1863 by various friends of the late Mr. George Rankin Luke, in Oxford and Scotland, for the purpose of founding a prize in his name, in connection with the University of Glasgow, where he studied during two years of his brilliant career as a scholar.

The Senate, with the sanction of the promoters of this fund, resolved to employ it to found a biennial Prize, for excelling in a competitive examination on general subjects connected with Ancient History and Literature. The examination to be conducted either altogether in writing, or by combination of writing and *vivâ voce* questions ; and the determination to rest with the Professors of Humanity and Greek, in conjunction, in case of uncertainty, with any one of their colleagues whom they may desire to nominate.

The Prize on the above foundation is given to the student who acquits himself best in an examination in Ancient Greek and Roman History.

The next competition will be held in January, 1905. In addition to historical questions, original passages will be given for translation from the standard authors. The competition is open to all students who shall have attended during session 1903-4 any Greek or Latin Class.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on 1st December, 1904.

MACFARLAN AND COOK TESTIMONIAL PRIZE.—The Macfarlan and Cook Testimonial Prize of Twenty Guineas, instituted in 1847 (along with a similar Prize in the University of St. Andrews), by the friends of the late Principal Macfarlan, D.D. of this University, and Professor George Cook, D.D. of St. Andrews, as a memorial of the services rendered to the Church of Scotland by these eminent clergymen, is bestowed annually on the Theological Student, of three years' standing, who shall pass the best examination in Greek, Moral Philosophy, Hebrew, Ecclesiastical History, and Divinity.

MACLEOD MEDAL.—In 1895 Lady Macleod instituted this Gold Medal in memory of her husband, Sir George Husband Baird Macleod, M.D., LL.D., Regius Professor of Surgery in this University from 1869 to 1892. The competition is open only to those who have attended the classes of Systematic and Operative Surgery taught by the Regius Professor of Surgery in the University, and women students are not eligible. The Medal is awarded yearly to the student who most distinguishes himself in the work (written, oral, and practical) of these classes.

MUIRHEAD PRIZES.—In 1776 Messrs. John Muirhead of Teggetsheugh, and Peter Muirhead, minister of Dysart, brothers of the deceased Mr. George Muirhead, Professor of Humanity in Glasgow College, presented a donation of £100, the interest to be applied in purchase of books to be awarded as prizes to those students attending the Humanity Class who shall be thought most deserving.

GEORGE ROGER MUIRHEAD PRIZE.—In 1896 a sum of £100 was bequeathed to the University by Mrs. Elizabeth Lockhart Roger or Muirhead, Glasgow, to found a prize in the Chemistry class in memory of her son, George Roger Muirhead, who studied Chemistry in this University. The free annual income is paid annually to the medallist of the Chemistry class for the year.

NICHOL MEMORIAL PRIZE.—In 1895 Mrs. Jack presented the University with the sum of £150 for the purpose of founding a prize, to be called the "Nichol Memorial Prize," in memory of her brother, John Nichol, LL.D., Professor of English Language and Literature in this University from 1862 till 1889, who died in

London on 11th October, 1894, and especially in commemoration of the active interest which he took in the teaching of English Literature to women in Glasgow and elsewhere. The free income of the fund is applied annually to providing a first prize for the English Literature Class in Queen Margaret College.

RAE WILSON GOLD MEDAL.—(See Cleland and Rae Wilson, p. 366.)

JOHN REID PRIZE.—A Prize of the value of £25 was founded in 1882 by Miss Mary Reid, Renfrew Street, Glasgow, in memory of her brother, the late Mr. John Reid, surgeon, 150 Renfrew Street, Glasgow. The prize will be awarded for the best original research conducted in one of the Hospitals or Scientific Laboratories in Glasgow, bearing on any department of Medical Science. The competition is open to registered students of medicine of not less than two years' standing; and to qualified medical men of not more than two years' standing, who (1) are still attached as *bonâ fide* students to one of the Glasgow Medical Schools, who (2) are not engaged in practice, and who (3) undertake to give up the prize if they enter on practice while holding it. All candidates are required to produce evidence of having attended a regular course of instruction, in one of the medical schools of Glasgow, on *four* of the following subjects :—Medicine, Clinical Medicine, Surgery, Clinical Surgery, Materia Medica, Physiology, Pathology—such course of instruction having been received, in whole or in part, within three years of competing for the prize. The prize may be awarded for one, two, or three years, according to the value of the work done.

Further information may be obtained from Mr. John Hurll, jun., writer, 157 St. Vincent Street, Glasgow.

ROBERT ROSS PRIZE.—The late Robert Ross, Esq., writer, Glasgow, by his Will, dated 1880, bequeathed to the Dean and Council of the Faculty of Procurators, Glasgow, the sum of £500, to be held by them in trust, "to the end that the free annual income thereof shall be applied as an annual prize in the form of a medal, of books, or of money, as the Dean and Council may determine, to a student in each of the Scots Law Class and the Conveyancing Class of the University of Glasgow in equal proportions, such prize to be awarded for eminence displayed, either in the general business of the class or in any other manner in which the said Dean and Council may prescribe."

SCOTT-MACFARLAN GOLD MEDAL.—Founded in 1870 by Miss Scott, daughter of the late Rev. Robert Allan Scott, Vicar of Cranwell, Lincolnshire, in fulfilment of her father's intentions.

Mr. Scott, wishing to encourage the study of Greek in the University of Glasgow, of which he was an alumnus, and from which he obtained an Exhibition to Balliol College, Oxford, in 1825 dedicated to that purpose the sum of £100 for a Gold Medal, to be called the "Scott-Macfarlan Prize for Greek," in memory of Mr. Scott's kinsman, the late Principal Macfarlan, and to be given on the last day of the session in each year to the best scholar in Greek of the session; the medal to be adjudged by the votes of the students of the upper Greek class. As the Jeffrey Medal has long been given to the best student in the senior Greek Class, the "Scott-Macfarlan" Medal is awarded to the best student attending the Honours Greek Class for the first time.

UNIVERSITY MEDAL.—The University bestows annually a Silver Medal for an Essay in Mental Philosophy.

WALKER PRIZES.—Four Prizes (consisting of Books or Instruments) to be competed for each year by students of Civil Engineering and Mechanics, founded in 1857 and 1861 by James Walker, Esq., Civil Engineer, LL.D., F.R.S.S.L and E.

The competition is open to all persons who shall have duly entered themselves as attending the class of Civil Engineering and Mechanics during the current session.

The competitors are examined orally and in writing; and two of the prizes are awarded on the results of the written examinations; the other two by votes of the class.

4.—*LIST OF BURSARIES, &c., OPEN TO COMPETITION DURING SESSION* 1903-4.

A.—FACULTY OF ARTS.

1.—BURSARIES.

The following is a summary of the principal provisions of Ordinance No. 57[1] of the Universities Commission (1889) relating to the Bursary competition:—

The subjects of the examination for open Bursaries in Arts of the first year shall be the subjects prescribed for the Arts Preliminary, of which subjects candidates may select not more than five. Candidates who select Latin, Greek, or Mathematics, must take the papers of the higher standard in those subjects. In determining the marks to be assigned to the several subjects of examination, English, Latin, Greek, and Mathematics shall each have assigned to them double the marks assigned to any other subject, and no candidate shall be credited with marks in any subject in which he

[1] The full text of this ordinance is printed at pp. 265-269

has not obtained such proportion of the total number of marks assigned to that subject as the Senate may from time to time prescribe.

Additional papers are set in

A. Latin, Greek, Mathematics.
B. French, German, Dynamics.

Of these additional papers candidates are allowed to take *either* two subjects from A., *or* one subject from A. and two from B., *or* three subjects from B.

No Candidate shall, except as hereinafter provided, obtain an open Bursary in Arts who shall not have passed the Preliminary Examination in Arts; provided that it shall be in the power of the Senate, with the approval of the University Court, to admit to an open Bursary in Arts a Candidate who shall have passed in at least three subjects of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the second Preliminary Examination after the date of his admission as Bursar. [This power has now lapsed. May, 1902.]

No student who has during a winter or summer session attended in any Scottish University any class qualifying in his case for graduation in Arts or Science, shall be eligible to compete for Bursaries of the first year in Arts or Science.

Candidates for Bursaries in Arts which are not awarded by open competition shall present themselves for the Preliminary Examination in Arts, and no Bursary shall, except as hereinafter provided, be awarded to any Candidate who shall not have passed the Preliminary Examination in Arts: provided that it shall be in the power of the Senate, with the approval of the University Court, to admit to a Bursary in Arts not awarded by open competition a Candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as Bursar.

N.B.—For the Bursaries open to women students see pp. 269—272.

FOR STUDENTS ENTERING THE FIRST SESSION IN ARTS.

I. FOR SPECIAL DISTINCTION IN PARTICULAR SUBJECTS.

The Bursaries for special distinction are limited to Students of the first year who have passed the Arts Preliminary, and who have not gained a Bursary for general excellence.

1. *Forfar Bursary*, for special distinction in Classics (Latin and Greek), annual value £36, tenable for four years.

2. *Stewart Bursary*, for special distinction in English, annual value £15, tenable for four years.

3. *M'Grouther Bursary*, for special distinction in Mathematics, annual value £20, tenable for four years.

4. *John Clark (Mile-End) Bursary*, for special distinction in French, annual value £30, tenable for four years, for Protestant students, sons or daughters of Protestant parents.

5. *John Clark Mile-End Bursary*, for special distinction in German, annual value £30, tenable for four years, for Protestant students, sons or daughters of Protestant parents.

6. *William Gardiner Bursary*, for special distinction in French and German, annual value £13 10s., tenable for two years, with a preference, *caeteris paribus*, for sons of medical men, lawyers, and teachers.

7. *General Council Bursary*, for special distinction in Dynamics, annual value £20, tenable for three years.

II. FOR GENERAL EXCELLENCE.

8. *Gartmore Bursary*, annual value £21, tenable for three years—open.

9. *General Council Bursary*, annual value £20, tenable for three years—open.

10. *George Grant, Junr., Bursary*, annual value £38, tenable for four years—open.

11. *Scott Bursary*, annual value £25, tenable for four years—open.

12. *King William's Bursary*, annual value £15, tenable for three years—open.

13, 14, 15, and 16. *Four John Clark (Mile-End) Bursaries*, annual value £30 each, tenable for four years, for Protestant students, sons or daughters of Protestant parents.

17. *Barbour Kilbarchan Bursary*, annual value about £20, tenable for three years, open only to candidates not exceeding 18 years of age from Kilbarchan Public School.

18 and 19. *Two Biggart Memorial Bursaries*, annual value £25 each, tenable for four years, for students preparing for the Ministry of the United Free Church.

20. *Brand Bursary*, annual value £24, tenable for four years, for students preparing for the Ministry of the United Free Church.

21 and 22. *Two Brown-Paton Bursaries*, annual value about £16 each, tenable for three years. Preference to natives of Loudon or Galston, whom failing, to natives of any other part of Ayrshire.

23. *Buchanan (Bellfield) Bursary*, annual value £47, tenable through the whole curriculum, for students preparing for the Ministry of the Church of Scotland.

24. *Cowan Bursary*, value for each of first two years £30, for third year £20, for students who have attended Ayr Academy for at least two years before the date of examination. Apply to Mr. J. G. M'Skimming, 7 Wellington Square, Ayr, before the first day of September.

25. *Archibald Craig Bursary*, annual value £9, tenable for two years, for students who are natives of Eaglesham or Mearns, or who for two consecutive years have attended school in either of these parishes.

26. *Davidson Bursary*, annual value £26, tenable for three years. Preference, *caeteris paribus*, to the Founder's relatives, and to natives of Muirkirk, Dalserf, Lesmahago, and Loudon.

27. *Denny Bursary*, annual value £30, tenable for four years, for students from Dumbarton Burgh Academy. [Tenable in any Faculty.]

28. *James Ewing Entrance Bursary*, annual value £20, tenable for four years, for sons of Glasgow merchants. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September.

29. *Forrester Bursary*, annual value about £23, tenable for three years, for natives of Lecropt or Dunblane Parish. Apply to Mr. A. B. Barty, Writer, Dunblane, before the first day of September.

30 and 31. *Two Fullarton of Overton Bursaries*, annual value £22 each, tenable for two years, for students under 25 years of age, from the district of Cunninghame, in Ayrshire. Subjects for Examination—Latin, Elementary Mathematics, and English.

32. *Hamilton Educational Trust Bursary*, annual value £15, tenable for three years, open to pupils attending public or State-aided schools in the Burgh and Parish of Hamilton. Apply to Mr. Patrick Keith, Writer, Hamilton, before the first day of September.

33. *Hannay Bursary*, annual value about £15, tenable for three years, for students preparing for the Ministry of any Evangelical Religious Denomination in Scotland. Apply to Mr. Robert Brodie, 77 St. Vincent Street, before the first day of September.

34 and 35. *Two Glasgow Highland Society's Bursaries*, annual value £20 each, tenable for four years, for students of Highland descent. Apply to Mr. Hugh Brown, Junr., 58 St. Vincent Street, on or before the fifteenth day of August.

36, 37, and 38. *Three Glasgow City Educational Endowments Bursaries*, annual value £25 each, tenable for four years, for students from public or State-aided schools in Glasgow. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September.

39, 40, 41, 42, and 43. *Five Hutchesons' Educational Trust Bursaries*, annual value £20 each, tenable for four years, for students who have attended for at least two years immediately preceding the competition, and completed the curriculum in the secondary department of Hutchesons' Grammar School. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September.

44 and 45. *Two James Laing Bursaries*, annual value £25 each, tenable for four years, for students of either sex who have been educated

for at least three years in a school or schools in Stirlingshire. Apply to Mr. William Jenkins, Writer, Denny, before the first day of September.

46. *James Lochhead Bursary*, annual value £16, tenable for three years. Preference to students of the name of Lochhead, whose parents are members of the Established Church of Scotland.

47. *Lochhead and Mitchell Bursary*, annual value £33, tenable for four years. Preference to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland.

48 and 49. *Two M'Crie Bursaries*, annual value £25 each, tenable for four years, subject to the conditions noted at p. 311. Apply to A. G. Young, Esq., Town Clerk, Ayr, before the first day of September.

50, 51, 52, and 53. *Four Marshall Trust Bursaries*, annual value £30 each, tenable for five years, for students of either sex from public or State-aided schools in Lanarkshire or Stirlingshire. Apply to William Mitchell, LL.D., 134 Wellington Street, Glasgow, before the first day of September.

54. *Patrick Bursary*, annual value £32, tenable for four years, for students from Renfrewshire.

55. *Glasgow Perthshire Society Bursary*, annual value £25, tenable for three years, for students connected with the county of Perth. Apply to Messrs. George Gray & Son, County Buildings, Glasgow, before the twenty-fifth day of August.

56. *Pollock Bursary*, annual value £40, tenable for three years. Preference to candidates educated in Paisley.

57 and 58. *Two Pratt Bursaries*, annual value £20 each, tenable for four years, for students from the parishes of Wiston, Roberton, or Lamington. Apply to Messrs. Fyfe, MacLean & Co., 115 St. Vincent Street, before the first day of September. [Tenable in any Faculty.]

59. *William Whyte Bursary*, annual value £25, tenable for four years, open to students who have attended and completed the curriculum in the secondary department of Hutchesons' Grammar School. Apply to Messrs. Hill & Hoggan, 194 Ingram Street, on or before the first day of September. [Tenable also in Law or Medicine.]

60, 61, and 62. *Three James A. Paterson Bursaries*, annual value £35, £25, and £20 respectively, tenable for three years, for students preparing for the Ministry of the United Free Church. The subjects of examination are Greek and Hebrew, as detailed at page 325.

FOR STUDENTS ENTERING THE SECOND SESSION IN ARTS.

Nos. 9, 11, 20, 23, 26, 30, 31, 44, 45, 60, 61, 62, in the preceding list.

63. *Park General Council*, annual value £20, tenable for two years—open.

64. *Lorimer Bursary*, annual value £25, tenable for three years. The examination will take place along with the Arts Preliminary Examination in Mathematics, but may embrace higher papers.

65. *Lorimer Bursary*, annual value £25, tenable for three years. Subjects of examination—1. *Logic*: (*a*) Descartes, *Meditations* (Veitch's translation); (*b*) Ferrier, *Lectures on Greek Philosophy*, the Pre-Socratic period. 2. *English Literature*: (*a*) Shakespeare's *As You Like It*; (*b*) Tennyson's *Idylls of the King*.

66. *John Ferguson Jaffrey Bursary*, annual value £34, tenable for two years. The subjects of examination are the same as for the Lorimer Bursary, No. 65.

For Students in Arts without Restriction to a Particular Session.

67. *Monteith Bursary*, annual value about £14, tenable for three years. Open only to natives of Scotland and sons of Scottish parents. Examination in French.

68. *Muir Junior Bursary in Mathematics*, annual value £9, tenable for sessions 1904-5, 1905-6. The appointment will be determined by the results of the written examinations passed in the course of the session 1903-4 by the public students of the Ordinary Class of Mathematics.

69. *Muir Senior Bursary in Mathematics*, annual value £18, tenable for session 1904-5. The appointment will be determined by the results of the written examinations passed in the course of the session 1903-4 by the public students of the Intermediate Honours Mathematical Class.

70. *Lanfine Bursary in Mental Philosophy*, annual value £25, tenable for two years.

71. *Lanfine Bursary in Modern Languages*, annual value £25, tenable for two years.

72. *Lanfine Bursary in English*, annual value £25, tenable for two years.

73. *James Ferguson Bursary*, annual value £85, tenable for two years. Preference, *cæteris paribus*, to natives of Lesmahagow or Muirkirk, or Pictou, Nova Scotia, and also to students of the name Ferguson or Weir, or to the kin of the Founder. The examination is the same as that for Honours in Mathematics and Natural Philosophy.

For Students in Arts, or Law, or Medicine.

74. *Macdonald Bursary*, annual value £15, tenable for four years, for miners under the age of 21 years. Examination in writing, arithmetic, geography, grammar, and history. For the *William Whyte Bursary*, see No. 59.

2.—FELLOWSHIPS, SCHOLARSHIPS, Etc.

75. *William Euing Fellowship in Classics*, annual value £100, tenable for four years. Open to Glasgow Masters of Arts.

76. *John Clark (Mile-End) Scholarship in Classics*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons or daughters of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

77. *William Euing Fellowship in Mental Philosophy*, annual value £100, tenable for three years. Open to Glasgow Masters of Arts.

78. *Armagh Bursary in Mental Philosophy*, annual value £45, tenable for three years in Theology, Law, or Medicine. Open to students who are presenting themselves for the final examination for the degree of M.A. with Honours in Mental Philosophy.

79. *George A. Clark Scholarship in Mathematics and Natural Philosophy*, annual value about £168, tenable for four years. Open to Glasgow Masters of Arts with Honours, or students presenting themselves for the M.A. degree with Honours in Mathematics and Natural Philosophy, but no student shall be eligible for the examination after the expiration of more than eight winter sessions from the time of his first entering a class qualifying for the M.A. degree.

80. *Eglinton Fellowship in Mathematics and Natural Philosophy*, annual value £65, tenable for three years. Open to Glasgow Masters of Arts who have graduated in April or October, 1903.

81. *Mackinnon Scholarship in Modern Languages*, £50 in value, tenable for one year, for proficiency in Modern Languages—open to all matriculated students.

82. *John Clark (Mile-End) Scholarship in History*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons or daughters of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

83. *John Clark (Mile-End) Scholarship in Economic Science*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons or daughters of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

84. *Gladstone Memorial Prize* of books to the value of £5 is open to graduates of this University who have taken the degree of M.A. with Honours or to students presenting themselves in October, 1903, for examination for the Degree of M.A. with Honours in Economic Science, but no one whose Arts course began before session 1897-8 is eligible. See p. 370.

85. *Snell Exhibition*, annual value about £133, tenable for three years. Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided as undergraduate students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland."

86. *Sandford Scholarship*, annual value £20, tenable for two years. Open to all matriculated students (not Masters of Arts) who have attended the public Greek classes for not less than two sessions.

87. *Gladstone Historical Prize* of £21, open to Graduates of Glasgow University of not more than two years' standing from the date of their first graduation.

88. *Thomas Logan Memorial Medal and Prize* of £12 will be awarded in April, 1904, to the graduate in Arts of the year 1903 who shall have obtained the highest marks in the Degree examinations.

DATES OF EXAMINATIONS.

The examinations for Bursaries Nos. 1 to 59 and 63 in the above list will commence on Friday, 25th September, at 9 a.m. The examination papers will be given in the following order, viz. :—

On Friday,	25th	September,	9—11 a.m.,	English (1st paper).
,,	,,	,,	12— 2 p.m.,	Higher Latin (1st paper).
,,	,,	,,	3— 6 p.m.,	Lower Latin.
On Saturday,	26th	,,	9—11 a.m.,	English (2nd paper).
,,	,,	,,	12— 2 p.m.,	Intermediate and Higher Mathematics (1st paper).
,,	,,	,,	3— 6 p.m.,	Lower Greek.
On Monday,	28th	,,	9—11 a.m.,	Higher Latin (2nd paper).
,,	,,	,,	12— 2 p.m.,	Intermediate and Higher Mathematics (2nd paper).
,,	,,	,,	3— 6 p.m.,	Lower Mathematics.
On Tuesday,	29th	September,	9—11 a.m.,	Higher Greek (1st paper).
,,	,,	,,	12— 1.30 p.m.,	French (1st paper).
,,	,,	,,	3— 6 p.m.,	Dynamics.
On Wednesday,	30th	,,	9—11 a.m.,	Higher Greek (2nd paper).
,,	,,	,,	12— 2 p.m.,	French (2nd paper).
,,	,,	,,	3— 4.30 p.m.,	German (1st paper).
On Thursday,	1st	October,	9—11 a.m.,	German (2nd paper).
,,	,,	,,	12— 1.30 p.m.,	Italian (1st paper).
,,	,,	,,	12— 2 p.m.,	German (additional paper).
,,	,,	,,	3— 5 p.m.,	Italian (2nd paper).
,,	,,	,,	3— 5 p.m.,	French (additional paper).
On Friday,	2nd	,,	9—11 a.m.,	Mathematics (additional paper).
,,	,,	,,	12— 2 p.m.,	Latin (additional paper).
,,	,,	,,	3— 5 p.m.	Greek (additional paper).
On Saturday,	3rd	,,	12— 2 p.m.,	Dynamics (additional paper).

The examination for Bursaries Nos. 60 to 62, on Tuesday, 20th Oct., at 9 a.m., and Wednesday, 21st Oct., at 2 p.m. ; for Bursary No. 64, on Saturday, 26th Sept., at 12 noon, Monday, 28th Sept., at 12 noon, and Friday, 2nd October, at 9 a.m.; for Bursary No. 65 and 66, on Wednesday, 30th September, at 2 p.m., and on Saturday, 3rd October, at 2 p.m. ; for Bursary No. 67, on Tuesday, 29th September, at 12 noon, Wednesday, 30th September, at 12 noon, and Thursday, 1st October, at 3 p.m. ; the examinations for the Bursary No. 74 will be held Thursday, 24th September, at 9 a.m. and 2 p.m.

The examinations for the Bursaries, Scholarships, and Fellowships No. 73 and Nos. 75 to 84 inclusive, in the above list, will be held along with the examinations for Honours in the several departments for the Degree of M.A. in September-October, 1903; for No. 85 along with the examinations for Honours, in March and April, 1904, the English paper being taken on Saturday, 2nd April, at 9 a.m. ; for No. 86 in the month of April, 1904 ; and for the Prize No. 87 in January, 1904.

DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursaries Nos. 1 to 64 inclusive, and Nos. 67 and 74 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Monday, 7th September ; and for Bursaries Nos. 65, 66, and 73, not later than Wednesday, 16th September. A schedule, which is to be filled up by each candidate, may be obtained from the Assistant Clerk (Matriculation Office). Candidates for the Bursary No. 28 must, besides, give in their names to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September; for No. 29, to Mr. A. B. Barty, Writer, Dunblane, before the first day of September; for No. 32, to Mr. Patrick Keith, Writer, Hamilton, before the first day of September; for No. 33, to Mr. Robert Brodie, 77 St. Vincent Street, before the first day of September; for Nos. 34 and 35, to Mr. Hugh Brown, Jun., 58 St. Vincent Street, before the fifteenth day of August; for Nos. 36 to 43, to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September; for Nos. 44 and 45, to Mr. William Jenkins, Writer, Denny, before the first day of September; for Nos. 48 and 49, to Mr. A. G. Young, Town Clerk, Ayr, before the first day of September; for Nos. 50 to 53, to William Mitchell, LL.D., 134 Wellington Street, before the first day of September; for Nos. 57 and 58, to Messrs. Fyfe, MacLean & Co., 115 St. Vincent Street, before the first day of September; and for No. 59, to Messrs. Hill & Hoggan, 194 Ingram Street, before the first day of September.

Candidates for the Fellowships, etc., Nos. 75 to 84 inclusive, are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 16th September; for No. 85, candidates are expected to inscribe their names in a book kept at the Clerk of Senate's office for the purpose, not later than the 1st December, 1903; for No. 86, candidates are required to send their names to the Assistant Clerk (Matriculation Office) on 4th March, 1904; and for No. 87 before 1st December, 1903.

B.—FACULTY OF SCIENCE.

Open to Competition during Session 1903-1904.

1 and 2. *Two Strang Bursaries*, annual value £20, tenable for three years. Open to students of Engineering Science.

3 and 4. *Two Agricultural College Bursaries*, annual value £50 and £40, tenable for three years, for students of Agriculture.

5. *Lorimer Bursary in Mathematics*—see No. 64 under Faculty of Arts.

6 and 7. *Two Metcalfe Bursaries*, each of annual value £25, tenable for two years. Open to students entering the class of Chemistry or of Intermediate Honours Mathematics.

8. *Lloyd's Register Scholarship*, annual value £50, tenable for three years. Open to candidates intending to become students of Naval Architecture whose age does not exceed 23 years.

9. *Malcolm Kerr Bursary*, annual value £20, tenable for three years. The subjects of examination are in Chemistry, and are those for the Final Science Examination for B.Sc.

10 and 11. *Muir Bursaries in Mathematics*—see Nos. 68 and 69 under Faculty of Arts.

12 and 13. *Muir Bursaries in Civil Engineering and Mechanics*, each of annual value £12 10s., tenable for session 1904-5.

14. *George Young Bursary*, annual value £35, tenable for one year, for students in the class of Civil Engineering. To be awarded in October, 1903, to the eligible candidate with the best record in the First Science Examination.

15. *Shipwrights' Company Bursary*, annual value £50, tenable for three years, for a student of Naval Architecture.

16. *Kirk Memorial Prize* of £14 for students completing Final Science Examination for B.Sc. on the side of Naval Architecture. See p. 372.

17. *James Watt Scholarship*, annual value £37, tenable for two years, for a Bachelor of Science of not more than two years' standing. See p. 362.

The examinations for the Bursaries Nos. 1 to 4 will be held at the same time as the Arts and Science Preliminary Examinations in September and October, 1903; for No. 5 on Saturday, 26th September, at 12 noon, Monday, 28th September, at 12 noon, and Friday, 2nd October at 9 a.m.; for Nos. 6 to 8 on Friday, 25th September, 9 a.m. and 3 p.m., on Monday, 28th September, at 3 p.m., and on Friday, 2nd October, at 9 a.m. and 2 p.m.; and for No. 9 on Tuesday, 29th September, at 9 a.m.

Names of Competitors to be given in to the Assistant Clerk (Matriculation Office), for Nos. 1 to 5 on 7th September, for Nos. 6 to 9 on 16th September, and for Nos. 12 to 14 on 10th March, 1904.

For the *Denny Bursary*, the *Malcolm M'Ewen Bursary*, the *Taylor Bursaries*, the *James Ferguson Bursary*, the 1851 *Exhibition Science Scholarships*, the *Dobbie Smith Gold Medal*, the *George Harvey Prize*, the *G. R. Muirhead Prize*, and the *Walker Prizes*, see pages 286, 313, 333, 289, 347, 368, 371, 373, and 375 respectively.

C.—FACULTY OF MEDICINE.

1. *Mackintosh Bursary*, annual value about £31, tenable for one year. Open to medical students of either sex who have attended the Lectures on Insanity.

2 and 3. *Two Glasgow Highland Society Bursaries*, annual value of each £25, tenable for five years, for students of Highland descent. Apply to Mr. Hugh Brown, Jun., 58 St. Vincent Street, on or before 15th August.

4. *Merchants' House Bursary*, annual value £25, tenable for four years. Open to students entering on their first winter session of medical study. Apply to W. H. Hill, Esq., LL.D., Merchants' House, 7 West George Street, on or before 1st September, 1903.

5. *Lorimer Bursary*, annual value £25, tenable for three years. Open to medical students entering on their second winter session.

6. *Rainy Bursary*, annual value £20, tenable for two years. Open to students entering on their fourth session of medical study. See page 326 of Calendar.

7 and 8. *Two James A. Paterson Bursaries*, annual value £35 and £25 respectively, tenable for four years. Open to students entering on their first or second session of medical study. Examination in Mathematics and Dynamics.

9. *William Gardiner Bursary*, annual value £13 10s., tenable for two years, will be awarded in November, 1903, for proficiency in Physiology, Chemistry, and Physics—see p. 293.

10. *John Monteith Bursary*, annual value about £21, tenable for two years, will be awarded in November to the student who gains the highest number of marks in Anatomy and Physiology in March and October, 1902.

11. *Andrew Weir Bursary*, annual value £15, tenable for one year, will be awarded in November in accordance with results of Second and Third Professional Examinations.

12. *Junior Arnott Prize*, of about £15, for an examination in General Physics, open to students of the first and second years of their medical studies.

13. *Senior Arnott Prize*, of £25, for an examination in Physiological Physics, open to students of the third and fourth years of their medical studies.

14. *Brunton Memorial Prize*, of about £10, is given to the most distinguished graduate in Medicine of the year.

15. *Joseph Coats Memorial Scholarship*, £60 in value, tenable for one year. See page 343.

For the *Denny*, the *Hutchesons' Educational Trust*, the *William Whyte*, the *Macdonald*, the *Armagh*, and the *James Ferguson Bursaries*, also tenable by students of Medicine, see Nos. 27, 39 to 43, 59, 74, 78, and 73, under Faculty of Arts.

DATES OF EXAMINATIONS.

The examinations for the Bursary No. 1 in the above list will be held in June, for Nos. 2 to 4, at the same time as the Medical Preliminary; for No. 5 on Monday, 28th September, at 2 p.m., on Tuesday, 29th September, at 9 a.m. and 11 a.m.; for Nos. 7 and 8, on Saturday, 26th September, at 12 noon; Monday, 28th September, at 12 noon; Tuesday, 29th September, at 3 p.m.; Friday, 2nd October, at 9 a.m., and Saturday, 3rd October, at 12 noon; and for the Prizes Nos. 12 and 13 on Saturday, 3rd October, at 12 noon.

DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursary No. 1 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 1st June; for Bursaries Nos. 2 to 8, not later than 7th September; and for Prizes 12 and 13, not later than 16th September.

D.—FACULTY OF LAW.

1. *Major Young's Fund Bursary*, annual value £22, tenable for six years, open to students of the first year in Arts who intend to study for a degree in Law. Names of candidates to be given in not later than 7th September.

2. *Major Young's Fund Bursary*, annual value £22, tenable for two years, open to students of the first year in Law. Names of candidates to be given in not later than 7th September.

Competitors for Nos. 1 and 2 are required to attend the Arts Preliminary and Bursary Examination. For subjects and times see p. 382.

5. *Andrew Cunninghame Scholarship*, annual value about £34, tenable for two years, will be awarded in November, 1903, to the most distinguished Bachelor of Laws of the year, special consideration being given to eminence in Scots Law.

For the *William Whyte*, the *Macdonald*, the *Armagh*, and the *James Ferguson Bursaries*, also tenable by students of Law, see Nos. 59, 75, 78, and 73 under Faculty of Arts.

E.—FACULTY OF THEOLOGY.

Open to Competition during Session 1902-3.

1. *Black Bursary*, annual value £36, tenable for three years. Open to students of Theology of the first year, qualified as specified at p. 277.

2. *Hastie Bursary*, annual value £25, tenable for three years. Open to students of Theology of the first year who are Masters of Arts of any Scottish University, or who have passed all the examinations for graduation in Arts.

3. *Logan Bursary*, annual value £17, tenable for three years. Open to competition to students who are entering upon their first year in Divinity.

4. *Lorimer Bursary*, annual value £25, tenable for three years. Open to students entering the Divinity Hall.

5. *Lumsden Bursary*, annual value £15, tenable for four years. Open to students of Divinity of the first year, with a preference to the sons of members, or of deceased members, of the Stationers' Company of Glasgow.

6. *Matthew A. Muir Bursary*, annual value £32, tenable for three years. Open to students of Divinity of the first year who hold a degree in Arts of any Scottish University, or who have passed their examinations in four subjects, taken out of at least two departments, for graduation in Arts.

7. *Notman Bursary*, annual value £18, tenable in the Divinity course.

8. *King William's Bursary*, annual value £20, tenable for three years. Open to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first year of attendance on a course of study in the University for graduation in Divinity.

9. *William Muir Divinity Bursary*, annual value £25, tenable for two years. Open to candidates who have passed the examination of the

Synodical Board for entrance to the Divinity Hall of the University. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, not later than 15th October.

10. *Black Theological Fellowship*, annual value about £126, tenable for one year. Open to Masters of Arts from any of the Universities of Scotland who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1904.

11. *The Findlater Scholarship Prize*, value about £38 sterling, for examination in the subjects for the degree of B.D. Open to students who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1904.

12. *The Jamieson Prize*, value about £10 sterling, for examination in the subjects for the degree of B.D. Open to students who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1904.

13. *The Macfarlan and Cook Testimonial Prize*, of £21, open to Theological students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

14 and 15. *Dowanhill Prizes*, one of £20, and the other of £10, for Elocution. Open to students of Divinity of the third year.

For the *Armagh* and the *James Ferguson Bursaries*, also tenable by students of Divinity, see Nos. 78 and 73 under Faculty of Arts.

DATES OF EXAMINATIONS.

The examinations for Nos. 1 to 9 inclusive, in the above list, will be held on Tuesday, 20th October, and Wednesday, 21st October, at 9 a.m. each day; and for Nos. 10 to 12, on Tuesday, 20th October, Wednesday, 21st October, Thursday, 31st March, and Friday, 1st April, at 9 a.m. each day.

SUBJECTS OF EXAMINATION.

Candidates for Bursaries Nos. 1 to 9 inclusive may select any seven out of the nine subjects in the following list:—

LATIN.—Horace, *Odes*, Book iii.; Translation from English into Latin.

GREEK.—The Gospel according to John.

LOGIC.—Jevons, *Elementary Lessons in Logic*.

MORAL PHILOSOPHY.—Muirhead, *Elements of Ethics*.

MATHEMATICS.—Euclid, Books I., II., III. Algebra to Quadratic Equations, inclusive.

NATURAL PHILOSOPHY.—Deschanel, *Physics*, Part II.

ENGLISH.—Morley, *First Sketch of English Literature*, Chapter XIII. A short essay will be prescribed.

HEBREW.—Book of Genesis.

HISTORY.—European History in the Sixteenth Century.

The subjects of examination for Nos. 10, 11, 12 are the same as for the Degree of Bachelor of Divinity.

The subjects of examination for the Prize No. 13 for Session 1903-4 are as follows :—

GREEK. —Sophocles, *Antigone*.

DIVINITY.—Biblical Theology.—The Epistle to the Romans.

HEBREW.—Isaiah, Chaps. i.-xxxix.

CHURCH HISTORY.—History of the Church in England, Scotland, and Ireland from 1500 to 1600.

MORAL PHILOSOPHY.—Butler, *Three Sermons on Human Nature*.

DATES FOR SENDING IN APPLICATIONS.

Candidates for Nos. 1 to 12 inclusive are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 14th October, 1903; for the Prize No. 13 to the Professor of Divinity, not later than 2nd November, 1903; and for the Prizes Nos. 14 and 15, to the Professor of Divinity, not later than 16th March, 1904.

5.—PATRONAGE BURSARIES, 1903-4.

A.—FACULTY OF ARTS.

Appointments to the following Bursaries in the gift of Patrons, including bodies corporate and not corporate, fall to be made before the opening of session 1903-4. Candidates are required to present themselves for the Arts Preliminary Examinations, and for this purpose their names must be given in to the Assistant Clerk (Matriculation Office), on or before 8th September.

1. *Adamson Bursary*, see page 273.
2. *Dundonald Bursary*, see page 287.
3. *Hamilton Bursary*, see page 298.
4. *Hyndford and Ross Bursary*, see page 303.
5. *Williams Bursary*, see p. 336.

B.—FACULTY OF THEOLOGY.

1. *Ardkinglass Bursary*, see page 273.
2. *Boyd and Sanders Bursary*, see page 278.
3. *Dundonald Bursary*, see page 287.
4. *Hamilton Bursary*, see page 298.

N.B.—For information regarding the Auld Bursary and the Sharp Bursary in the gift of the Presbytery of Perth for students preparing for the ministry of the Church of Scotland, apply to the Clerk of the Presbytery, the Rev. John Ferguson, B.D., Aberdalgie, Perth.

6.—*UNIVERSITY PRIZE ESSAYS.*

For Session 1903-4.

1. In Mental Philosophy, the University Silver Medal, for the best essay on "The Theory of the 'Will to believe': a statement and discussion." All students of the Classes of Logic, Moral Philosophy, or English Literature, in Session 1902-3 or 1903-4, may be competitors.

2. The Gartmore Gold Medal, for the best essay on "Theories of Political Liberty in the Eighteenth Century." All matriculated students of the University in session 1903-4 may be competitors.

3. A Coulter Prize of Five Pounds, for the best essay on "Ben Jonson and the Classical School of English Drama."

4. A Coulter Prize of Five Pounds, for the best English essay on the following subject: "How far is it true that Latin Literature, as compared with Greek Literature, is essentially modern in its character?"

For the Coulter Prizes all matriculated students of the University in session 1903-4 may be competitors.

5. The Henderson Prize of Twenty Guineas, for the best essay on "The Teleological Argument in the Nineteenth Century." All matriculated students of the University in session 1903-4, and all Masters of Arts who graduated in November, 1898, or thereafter, may be competitors.

6. The Dobbie-Smith Gold Medal, for the best essay on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and the essay to be accompanied by an illustrative series of Macroscopic and Microscopic Specimens. All matriculated students of session 1902-1903 may be competitors. Essays must be given in by 30th September, 1903.

The essays, with the exception noted above (No. 6), must be given in to the Principal on or before Saturday, 31st October, 1903, after which day none can be received. Each must be distinguished by two mottoes, and accompanied by a sealed letter bearing on the outside the same mottoes, and containing a declaration subscribed by the author that the essay is entirely of his own composition. All quotations in the essays must be carefully marked and accurate references to their respective authorities given in the notes. The Senate reserves the power of withholding the prize for any subject, if none of the essays on that subject reaches a sufficiently high standard of merit.

EWING GOLD MEDAL IN SESSION 1904-5.

The subject for the essay in the competition for the Ewing Gold Medal, open to matriculated students in session 1904-5, will be—"Queen Margaret (Tudor) of Scotland."

XI.—HONOURS LIST.

NAMES OF GRADUATES WITH HONOURS SINCE THE YEAR 1827.

BACHELORS OF ARTS (B.A.).

			Honourable Distinction.	Highest Distinction.
1827	[1] Alfred Day, . . .	England,	. . . .	Classics. Mental Philosophy.
1831	James Halley, . .	Scotland,	. . . .	Classics. Mental Philosophy.
1838	William Makellar, .	,,	Classics.	
,,	Francis Tucker, . .	England,	Classics.	
1840	[1] John Daniel Morell, .	,,	Classics. Mental Philosophy.	
1842	[1] Nathaniel Haycroft, .	,,	Classics. Mental Philosophy.	
1843	[1] David M'Lauchlan, .	Scotland,	Classics. Mental Philosophy.	
1852	Samuel Crusha Sarjant,	England,	. . . .	Classics. Mental Philosophy.
1856	[1] Joseph David Everett, .	,,	Classics. Mental Philosophy.	
,,	David Johnston, . . .	,,	Mental Philosophy.	
1857	Wm. Thomson Johnston,	Scotland,	. . . . .	Classics.
,,	Andrew Moody, . . .	,,	Mental Philosophy.	
,,	[1] William Ralph Pattison,	,,	Classics. Mental Philosophy.	
1858	John MacLeod, . . .	,,	. . . . .	Mental Philosophy.
,,	[2] Peter Sinclair Menzies, .	,,	Classics.	
1859	[1] George Porter, . . .	,,	Classics. Mental Philosophy.	
,,	[1] Joseph Gardner, . . .	,,	Mental Philosophy.	
1860	[1] Richard Vary Campbell,	,,	. . . . .	Mental Philosophy.
,,	[1] Daniel Munro, . . .	,,	Classics.	
1861	[1] John M'Lean, . . .	,,	Classics. Mental Philosophy.	
,,	[1] Thomas Carruthers, .	,,	Classics. Mental Philosophy.	
,,	[1] William Stewart, . .	,,	Classics. Mental Philosophy.	
,,	[3] David Thomas, . . .	,,	Mental Philosophy.	
,,	[1] George Matheson, . .	,,	Mental Philosophy.	
,,	[1] Henry William Bell, .	India,	Mental Philosophy.	
,,	[1] Thomas Robinson, .	England,	Mental Philosophy.	

[1] Graduated M.A. in the following year. [2] Graduated M.A. three years later.
[3] Graduated M.A. two years later

MASTERS OF ARTS (M.A.).

			Honourable Distinction.	Highest Distinction.
1827	George Samuel Evans, .	England,	. . . .	Classics. Mental Philosophy.
,,	William Cooper, . .	Scotland.	Classics. Mental Philosophy.	
1828	William Acworth, .	England,	. . . .	Classics. Mental Philosophy.
,,	Samuel Macurdy Greer,	Ireland,	. . . .	Classics. Mental Philosophy.
,,	James Rankine, . .	Scotland,	Classics. Mental Philosophy.	
,,	William Baird, . .	,,	Classics. Mental Philosophy.	
,,	John Reid, . . .	England,	Physical Science.	
,,	Alexander Ure, . .	Scotland,	Physical Science.	
1831	David L. Arnot, . .	,,	. . . . .	Classics.
,,	John Jenkins, . .	Wales,	Classics.	
,,	Robert Cotton Mather, .	England.	Classics.	
,,	Neil M'Michael, . .	Scotland.	Physical Science.	
1832	Andrew Borland Parker,	,,	. . . . .	Classics.
1836	John Cunningham, .	,,	. . . . .	Physical Science.
,,	William Fulton, . .	,,	Classics. Mental Philosophy.	
837	Richard Shaen, . .	England,	Physical Science.	
,,	Thomas Elliot Richardson,	,,	Physical Science.	
,,	John Blair, . . .	Ireland,	Physical Science.	
,,	William Cuthell, . .	Scotland.	Physical Science.	
840	Duncan Harkness Weir,	,,	Physical Science.	
,,	James Thomson, . .	Ireland,	Physical Science.	
,,	John Buchanan, . .	Scotland.	Physical Science.	
841	William Arthur Jones,	Wales,	Classics. Mental Philosophy.	
842	Alexander Grierson, .	Scotland,	Physical Science.	
,,	John Davies, . .	England,	Classics. Mental Philosophy.	
843	John Trafford, . .	,,	Classics. Mental Philosophy.	
,,	David Duff, . . .	Scotland.	Physical Science.	
844	John Morgan, . .	,,	Physical Science.	
,,	John Thomson, . .	Ireland,	Physical Science.	
,,	William Turnbull Ker, .	Scotland,	Physical Science.	
,,	Richard Tomlinson, .	England,	Classics. Mental Philosophy.	
846	Robert Graham, . .	Scotland,	Physical Science.	
847	William John Steele, .	Ireland,	Physical Science.	
,	James Porter, . .	,,	Physical Science.	
48	Adam Milroy, . .	Scotland,	Classics. Mental Philosophy.	
,	Walter David Jeremy, .	England,	Classics. Mental Philosophy.	

			Honourable Distinction.	Highest Distinction.
1849	John Kerr, . . .	Scotland,	. . . . .	Physical Science.
,,	George M'Queen, . .	,,	. . . . .	Physical Science.
,,	Henry Martyn Barker, .	England,	. . . . .	Classics. Mental Philosophy.
,,	John Newton Langley, .	,,	. . . . .	Classics. Mental Philosophy.
1850	Alexander Walker, .	Scotland,	Classics. Mental Philosophy.	
,,	Horatio Lindsay Taplin,	England,	Classics. Mental Philosophy.	
,,	Robert Masters Theobald,	,,	Classics. Mental Philosophy.	
1851	Carstairs Douglas, .	Scotland,	Physical Science.	
,,	Daniel Davies Jeremy, .	England,	Classics. Mental Philosophy.	
1852	Thomas Logan, . .	Scotland,	Physical Science.	
,,	James Wylie Johnston,	,,	Classics. Mental Philosophy.	
1853	Charles Abercromby Smith,	,,	. . . . .	Physical Science.
,,	William Jack, . .	,,	. . . . .	Physical Science.
,,	Edward John Gibbs, .	England,	. . . . .	Classics. Mental Philosophy.
1856	James Galbraith, . .	Scotland,	Physical Science.	
,,	John Murray, . .	,,	Physical Science.	
1857	Joseph David Everett. .	England,	. . . . .	Physical Science.
,,	George Monro Grant,	Nova Scotia,	. . . . .	Mental Philosophy.
,,	David Herbert, . .	Scotland,	Mental Philosophy.	
,,	Neil Macpherson, . .	,,	Classics. Mental Philosophy.	
1858	John Weir, . . .	,,	Mental Philosophy.	
1859	Robert Whyte, . .	,,	Mental Philosophy.	
1860	Walter Roberts, . .	,,	Mental Philosophy.	

MASTERS OF ARTS (M.A).

Ordinances No. 14, Sections vi., vii., viii.; No. 18, Section iii. (1858).

			Class of Honours and Department.			
			Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1862	John Ferguson, . . .	Scotland,	...	...	...	I
1866	John Mann, ...	,,	I	..	...	...
,,	John Fergusson, ...	,,	...	II	...	...
1867	William E. Grigsby. . .	England,	II	...	...	...
,,	James Smith, ...	Scotland,	...	...	I	...
,,	William Ross, ...	,,	...	..	II	...
1868	Robert Stewart, ...	,,	...	I	..	...
,,	John Wilson, ...	,,	...	I	...	...

			Class of Honours and Department.			
			Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1869	Favour James Greg,	Scotland,	...	I	...	...
,,	Adam Semple,.	,,	...	I	...	...
,,	Joseph Loudon,	,,	...	...	II	...
,,	James M'Intosh,	,,	...	I	...	...
1870	John Cross,	U.S.A.,	I	I	...	...
,,	Matthew M. Dickie,	England,	II	I	...	...
,,	James Orr,	Scotland,	...	I	...	...
,,	Robert A. Sinclair,	,,	...	II	...	...
,,	James D. H. Dickson,	,,	...	...	II	...
,,	Dugald M'Kichan,	,,	...	...	II	...
1871	William S. Fleck,	,,	...	I	...	...
,,	William Oliver,	Wales,	...	II	...	...
,,	John E. H. Thomson,	Scotland,	...	II	...	...
,,	Colin R. M'Clymont,	,,	...	I	...	...
,,	Charles S. Dickson,.	,,	...	II	II	...
1872	William Hamilton,	,,	...	I	...	...
,,	John Watson,.	,,	...	I	...	...
,,	Zachary M. H. Ross,	,,	...	II	...	...
,,	Archibald Russell,	,,	...	II	...	...
,,	William G. Miller,	,,	...	..	II	...
,,	John M. Brown,	,,	...	I	...	...
,,	Alexander S. Macphee,	,,	...	I	...	...
,,	James C. MacTaggart,	,,	...	...	I	...
,,	James Henderson,	,,	...	...	II	...
1873	William Bathgate,	,,	I	...	...	...
,,	John M'Cunn,.	,,	...	I	...	...
,,	Thomas L. Galloway,	,,	...	...	I	...
,,	David Hunter,	,,	II	I	...	...
,,	Robert Harvey,	,,	I	...	...	...
,,	Thomas H. Miller,	,,	...	...	I	..
,,	Buchanan Blake,	,,	...	II	..	...
,,	James Arthur,	,,	...	...	II	...
1874	James Bonar,	,,	I	I	...	...
,,	James G. Frazer,	,,	I	...	...	...
,,	Alexander F. Fraser,	,,	...	I	...	...
,,	John Wilson Reid,	,,	I	...	II	...
,,	Colin Campbell,	,,	II	I	...	...
,,	James Thomson,	,,	..	I	...	...
,,	Hugh Hart Currie,	,,	II	...	...	...
,,	James MacKay,	,,	...	II	...	...
1875	Benjamin F. C. Costelloe,	Ireland,	II	I	...	...
,,	William Yuill King,	Scotland,	I	...	...	...
,,	William Patrick,	,,	...	I	...	...
,,	John Patrick,	,,	II	...	.	...
,,	James S. Russell,	,,	..	...	I	..
,,	John C. Watt,	,,	...	...	I	...
,,	John B. Douglas,	England,	II	...	...	...
,,	Neil D. MacLachlan,	Scotland,	...	II	..	...
,,	James Johnston Dobbie,	,,	...	...	...	I
1876	James Lambie,	,,	...	I	...	..
,,	Ebenezer B. Speirs,.	,,	...	I	...	...

			Class of Honours and Department.			
			Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1876	Islay F. Burns,	Scotland.	II	...	...	...
,,	Robert MacLehose,	,,	...	II	...	...
,,	Joseph Conn,	,,	...	...	II	...
,,	Robert H. Pinkerton,	,,	...	...	II	...
,,	David Wilson,	,,	...	...	II	...
,,	John P. Mitchell,	,,	...	I	...	...
,,	William M. Rankin,	,,	...	I	...	...
,,	Andrew Gray,	,,	...	...	II	...
1877	Wallace M. Lindsay,	,,	I	II	...	...
,,	Alexander S. Wilson,	,,	...	...	...	I
,,	James Kidd,	,,	...	I	...	...
,,	Thomas B. Kilpatrick,	,,	...	I	...	...
,,	Mungo W. M'Callum,	,,	...	II	...	...
,,	William Allan,	,,	...	...	II	...
,,	James Arthur,	,,	...	...	II	...
1878	Robert Mackintosh,	,,	II	I	...	...
,,	John Edgar,	,,	I	...	...	...
,,	John M. Dodds,	,,	...	...	I	...
,,	David W. Forrest,	,,	...	II	...	...
,,	Alexander Isdale,	,,	...	I	...	...
,,	Lewis A. Muirhead,	,,	...	I	...	...
,,	James Wilson,	,,	II	...	II	...
1879	John Wilson Marshall,	,,	I	II	...	...
,,	Francis Wm. Clark,	,,	II	II	...	...
,,	Henry Jones,	Wales.	...	I	...	...
,,	William T. Bankhead,	Scotland.	...	II	...	...
,,	Andrew Rutherfurd,	,,	...	II	...	...
,,	James Thomson,	Ireland.	...	...	II	...
,,	James Denney,	Scotland.	I	I	...	...
,,	James Kippen Duff,	,,	I	...	...	...
,,	Robert Tannahill Younger,	,,	...	II	...	...
,,	William L. Macindoe,	,,	...	...	II	...
1880	Alexander Gregory,	,,	II	...	...	...
,,	Thomas Gregory,	,,	I	I	I	...
,,	Alexander N. Cumming,	,,	II	II	...	...
,,	Hugh Young Reyburn,	,,	II	II	...	...
,,	John G. A. Dow,	,,	II	...	...	...
,,	John Henderson,	,,	...	II	...	...
1881	Cecil J. Swan,	,,	II	...	...	...
,,	Francis H. Stead,	England,	II	I	...	...
,,	David S. Adam,	Scotland.	...	I	...	...
,,	William Granger,	,,	...	I	...	...
,,	Robert F. Muirhead, B.Sc.,	,,	...	...	I	...
,,	Alexander Russell,	,,	...	...	I	...
,,	Patrick H. Aitken,	,,	II	...	...	...
,,	Alexander Anderson,	,,	II	...	...	...
,,	Robert T. Loudon,	,,	...	II	...	...
,,	Robert Veitch,	England.	...	II	...	...
,,	James Maclay,	Scotland,	...	...	II	...
,,	John Stuart,	,,	...	...	II	...
,,	James Hamilton,	,,	...	...	II	...

			Class of Honours and Department.			
			Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science
1882	James A. M'Callum,	Scotland,	...	I	...	...
,,	John H. Fullarton,	,,	...	...	...	I
,,	Charles P. Blair,	,,	...	II	...	...
,,	James M. Dodds,	,,	I	...	...	...
,,	John S. MacKenzie,	,,	...	I	...	...
,,	William Smart,	,,	...	I	...	...
,,	John Weir,	,,	...	...	I	...
,,	John Gray,	,,	...	II	...	...
,,	Charles Steele,	,,	...	II	...	...
1883	John Aitken Orr,	,,	...	I	...	...
,,	Alexander Robinson,	,,	...	II		...
,,	Lewis Hughes,	Wales,	...	II	...	...
,,	Francis Anderson,	Scotland,	...	I	...	...
,,	Wm. S. M'Kechnie,	,,	...	I	...	...
,,	William Muir,	,,	...	I	...	...
,,	James W. Inglis,	,,	II	...	...	...
,,	Patrick H. Hutchinson,	Ireland,	II	...	...	...
,,	Robert A. Moody,	Scotland,	II	...	...	...
,,	William T. Mitchell,	,,		...	II	...
1884	Andrew A. Mitchell,	,,	I	...	...	...
,,	James M'Millan,	,,	I	...	...	...
,,	Archd. S. Laidlaw,	,,		I	...	...
,,	John Mack,	,,	...	...	I	...
,,	William Clark,	,,	II	...	...	...
,,	John Struthers,	,,	II	I	...	...
,,	Archibald M'Laren,	,,	I	...	...	...
,,	John Adams,	,,	...	I	...	...
,,	James Barr,	,,	...	I	...	...
,,	Gavin Lambie,	,,	...	I	...	...
,,	Robert M. Wenley,	,,	...	I	...	...
,,	George G. Henderson,	,,	...	...	...	I
,,	Campbell N. Moody,	,,	II	II	...	...
,,	Hugh Stevenson,	,,	...	II	...	...
,,	James Strachan,	,,	...	...	II	...
,,	Alex. B. Symington,	,,	II	...	...	...
1885	John Lee,	,,	I	...		...
,,	James Buchanan,	,,	...	...	I	...
,,	Norman Fraser,	,,	...	...	I	...
,,	James P. M'Laren,	,,	II	...	...	...
,,	William Binnie,	,,	...	II	...	...
,,	David Frew,	,,	...	II	...	...
,,	Richard Glaister,	,,	...	II	...	...
,,	David Houston,	,,	...	II	...	...
,,	Walter Wingate,	,,	...	...	II	...
,,	William M. Mackay,	,,	...	I	...	...
,,	Andrew F. Smith,	,,	...	I	...	...
,,	Alex. L. Watson,	,,	II	...	...	...
,,	Archibald J. Macnicol,	,,	...	...	II	...
1886	Charles F. Fleming,	England,	...	I	...	...
,,	Wellstood A. Watt,	Scotland,	...	I	...	...
,,	John Dougall,	,,	...	...	I	...

			Class of Honours and Department.			
			Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1886	John M'Cowan, B.Sc., . .	Scotland,	...	...	I	...
,,	William H. Carslaw, . .	,,	...	...	II	...
,,	Magnus M'Lean, . . .	,,	...	...	II	...
,,	John A. Cramb, . . .	,,	I	...	...	...
,,	Robert A. Duff, . . .	,,	...	I	...	...
,,	William Johnston, . . .	,,	...	II	...	...
,,	James Macmillan, . . .	,,	...	...	II	...
,,	Robert A. Nicolson, . .	,,	...	...	II	...
1887	James Finlayson, . . .	,,	...	...	II	...
,,	James Gifford, . . .	,,	...	II	...	...
,,	Charles Mackay Gordon, .	W. Indies,	...	I	...	...
,,	David Smith, ...	Scotland,	I	...	...	...
,,	John Watson Bryson, . .	,,	...	I	...	...
,,	Robert Gardner, . . .	,,	...	II	...	...
,,	James Gilfillan, . . .	,,	...	I	...	...
,,	Daniel Kirkwood, . . .	,,	...	II	...	...
,,	Alexander Lucas Taylor, .	,,	II	...	...	...
,,	John Thomson, . . .	,,	...	...	II	...
1888	John Esslemont Adams, . .	,,	II	...	...	...
,,	Archibald Lamont, . . .	,,	...	II	...	...
,,	Arthur David Millar, . .	,,	I	...	...	...
,,	John Dickson Sinclair, . .	,,	...	II	...	...
,,	Evan Keri Evans, . . .	Wales,	...	I	...	...
,,	Robert Kennedy, B.Sc., .	Scotland,	...	...	...	I
,,	John Liddle King, . . .	,,	...	II	...	...
,,	Malcolm Macnicol, . . .	,,	...	...	II	...
,,	Ernest Findlay Scott, . .	England,	I	I	...	...
,,	Robert Scrymgeour, . .	Scotland,	...	I	...	...
,,	Robert Reid Strachan, . .	,,	...	II	...	...
,,	John Cunningham Walker, .	,,	...	II	...	...
1889	Norman de Garis Davies, .	England,	...	II	..	...
,,	George Davidson Kempt, .	Scotland,	...	II	...	...
,,	Alfred Ernest Garvie, . .	Poland,	...	I	...	...
,,	John Hunter Harley, . .	Scotland,	...	I	...	...
,,	John Brownlee, . . .	,,	...	...	I	...
1890	James Fairlie Gemmill, . .	,,	I	...	...	...
,,	John Edgar M'Fadyen, . .	,,	I	...	...	...
,,	James Robertson Cameron, .	,,	...	I	...	...
,,	James Moffatt, . . .	,,	II	.	...	...
,,	James Peter Wilson, . .	,,	II	...	...	...
,,	John Easton Black, . .	,,	...	II	...	...
,,	George Douglas Brown, .	,,	I	...	...	...
,,	Robert Bulloch Douglas, .	,,	...	I	...	...
,,	Peter Pinkerton, . . .	,,	...	...	I	...
,,	Douglas Blyth Binning, . .	,,	...	II	...	...
,,	Robert Baillie Douglas, . .	,,	...	II	...	...
,,	James Hair Maclean, . .	,,	...	II	...	...
,,	Gilbert Buchanan, . . .	,,	...	...	II	...
,,	Alexander Holm, . . .	,,	...	...	II	...
1891	John Hamilton Pagan . .	,,	I	...	...	...
,,	John Gillies, ...	,,	II	...	...	...

			Class of Honours and Department.			
			Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1891	John M'Gilchrist,	Scotland,	II	...	...	...
,,	Horatio Scott Carslaw,	,,	...	...	I	...
,,	James Holm,	,,	...	...	I	...
,,	Nicol Macnicol,	,,	II	II	...	...
,,	John White,	,,	...	II	...	...
1892	David Donaldson Robertson,	,,	...	I	...	...
,,	Daniel Lamont,	,,	...	II	I	...
,,	John Gillespie Spens,	,,	II	...	...	...
,,	Alexander Taylor,	,,	II	...	...	...
,,	Walter Stewart,	,,	...	...	I	...
1893	Donald Nicol Dow,	,,	I	...	...	...
,,	Gilchrist Gibb Alexander,	,,	...	I	...	...
,,	Robert Stevenson Horne,	,,	...	I	...	...
,,	William Sandilands Templeton,	,,	...	...	I	...
,,	Wm. Carrick Anderson,	,,	...	...	...	I
,,	Edward H. Wallace,	,,	II	...	II	...
1894	Campbell M. Macleroy,	,,	I	...	...	...
,,	Robert George Nisbet,	,,	II	...	...	...
,,	Andrew Robertson,	,,	II	...	...	...
,,	John Charles Scott,	Ireland,	I	...	...	...
,,	Charles William Thomson,	Scotland,	I	...	...	...
,,	William Romaine Paterson,	,,	...	I	...	...
,,	Charles Shirra Dougall,	,,	...	...	I	...
,,	William Craig Henderson,	,,	...	...	I	...
,,	John Macfarlane Forsyth,	,,	II	...	...	...
1895	William Gow,	,,	I	...	...	...
,,	Joseph Ferguson M'Fadyen,	,,	I	...	...	...
,,	Gavin Lang Pagan,	,,	...	I	...	...
,,	William Anderson Lindsay,	,,	...	...	I	...
,,	Thomas Nisbet,	,,	...	...	I	...
,,	John Alexander Duke,	,,	...	II	...	...
1896	David Hodge Crawford,	,,	I	...	...	...
,,	John Freeland Cunningham,	,,	II	...	...	...
,,	John Girvan,	,,	II	...	...	...
,,	James M'Murtrie,	,,	II	...	...	...
,,	James Slater Dunlop,	,,	...	...	II	...
,,	William Morrison,	,,	...	II	...	...
,,	Samuel Harvey M'Ewing,	,,	...	II	...	...
,,	Alexander Smith,	,,	...	II	...	...
,,	John Miller,	,,	...	...	I	...
1898	William John Saull,	England,	...	II	...	...
1899	James Moffat,	Scotland,	...	...	II	...

MASTERS OF ARTS (M.A.).

Ordinances No. 11, Sections xi.-xv.; No. 44, Sections vi., viii.; No. 148, Sections ii., iii.; No. 160, Sections i.-iii.; No. 168, Section i. (1889).

		First Class.	Second Class.	Third Class.
1894	Henry Noel Brailsford, England,	Mental Philosophy.	Classics.	
1895	William Gregory Bell, do.,	Classics.		
,,	James Wallace Peck, Scotland,	Math. & Nat. Phil.		
,,	William King Gillies, do.,	Classics. Mental Philosophy.		
1896	James Paterson Brander, do.,	Classics.		
,,	John Maclean Ramsay, do.,	Classics.		
,,	Horace Fenton Wallace, do.,	Classics.		
,,	James Gillespie, do.,		Classics.	
,,	William Boyd, do.,	Mental Philosophy.		
,,	James Wilson Copeland, do.,	Math. & Nat. Phil.		
,,	Adam Bell Stewart, do.,	Math. & Nat. Phil.		
,,	George Donald Valentine, do.,	Math. & Nat. Phil.		
,,	Arthur West Wilkie, England,		Math. & N.P.	
,,	John Young, Scotland,		Math. & N.P.	
1897	George Stewart Adams, do.,	Classics.		
,,	Robert Daniels Bell, England,	Classics.		
,,	John W. Henderson, Scotland,	Classics.		
,,	Peter William Monie, do.,	Classics.		
,,	Marion M. Crichton, China,		Classics.	
,,	Alex. James Martin, Scotland,		Classics.	
,,	Thomas Neilson, do.,		Classics.	
,,	Allan Gibson, do.,			Classics.
,,	Thomas Ellis Jones, Wales,	Mental Philosophy.		
,,	David Stevenson, Scotland,			English.
,,	William M. R. Pringle, ,,	History.	Classics.	
,,	Gavin Scott, ,,	History.	Classics.	
,,	Adam Hamilton, ,,	Classics.		
,,	James William Baird, ,,		Classics.	
,,	Grace Foulis Hay, ,,		Classics.	
,,	William N. Raeburn, ,,		Classics.	
,,	Andrew Boyd Scott, ,,	Mental Philosophy.		
,,	John Scoular Thomson, ,,	Mental Philosophy.		
,,	Alex. M'Callum Scott, ,,			Ment. Phil.
,,	James Campbell Ker, ,,	Math. & Nat. Phil.		
,,	William Wylie Fulton, ,,		English.	
,,	Richard R. Williams, Wales,			English.
1898	John Lyle Morison, Scotland,	History. English.		
,,	William H. Begg, ,,	Classics.		
,,	David L. Blair, ,,	Classics.		
,,	John Harvey, ,,	Classics.		
,,	Dorothy N. T. Murray, ,,		Classics.	
,,	Constance Tannahill, England,			Classics.
,,	Alexander A. Gardner, Scotland,	Math. & Nat. Phil.		
,,	James E. Henderson, ,,		Math. & N.P.	
,,	Wm. Fulton (Uddingston), ,,	Classics.	Math. & N.P.	

			First Class.	Second Class.	Third Class.
1898	Eliz. Pettigrew Taylor,	Scotland,	Math. & Nat. Phil.	English.	
,,	William Longmore Parkin,	,,	. . . . .	. .	Classics, M. Phil.
,,	Robert M'Ewan,	,,	Classics.		
,,	Helen Rutherfurd,	,,	Classics.		
,,	William Fulton (Glasgow),	,,	. . . . .	Classics.	
,,	William Henderson Love,	,,	. . . . .	Classics.	
,,	Alexander Auchinachie,	,,	. . . . .	. .	Classics.
,,	And. James Campbell Kerr,	,,	. . . . .	. .	Classics.
,,	Hugh Reid Buchanan,	,,	Mental Philosophy.		
,,	David H. Tweeddale,	,,	Mental Philosophy.		
,,	Robert Candlish,	,,	. . . . .	Ment. Phil.	
,,	Robert John Tainsh Bell,	,,	Math. & Nat. Phil.		
,,	Thomas Pullar,	,,	Math. & Nat. Phil.		
,,	Joseph White,	,,	Math. & Nat. Phil.		
,,	Hugh Brown,	,,	. . . . .	Math.&N.P.	
,,	Peter Lowson,	,,	. . . . .	Math.&N.P.	
,,	John Jeffrey,	,,	. . . . .	. .	M.&N.P.
,,	Helen Margaret Rule,	,,	English.		
,,	Henry Murphy,	,,	. . . . .	English.	
,,	Henry Givan Webber,	,,	. . . . .	. .	English.
1899	Samuel F. H. Mackay	,,	Classics.		
,,	Archibald Main,	,,	Mental Philosophy.		
,,	John Edgar,	,,	English.		
,,	Maude Gertrude May,	England,	English.		
,,	Alexander D. Lindsay,	Scotland,	. . . . .	Classics.	
,,	Charles G. M'Ilravey,	Ireland,	. . . . .	Classics.	
,,	Gordon B. Nielson,	Scotland,	. . . . .	English.	
,,	Jessie Lyon Gilchrist,	,,	. . . . .	Mod. Lang.	
,,	Minnie Louise Arthur,	,,	. . . . .	. .	M. Lang.
,,	David M. Stewart,	,,	Math. & Nat. Phil.		
,,	John Lochhead,	,,	English.	History.	
,,	Ritchie Girvan,	,,	English.	. .	Classics
,,	John Anderson,	,,	. . . . .	Classics, Math.&N.P.	
,,	William A. Edward,	England,	Classics.		
,,	James Sheridan,	Scotland,	Classics.		
,,	James M'Clelland,	,,	. . . . .	Classics.	
,,	James Faulds,	,,	. . . . .	. .	Classics.
,,	Arch. M. Macmillan, B.Sc.,	,,	Math. & Nat. Phil.		
,,	David K. Picken,	,,	Math. & Nat. Phil.		
,,	Robert W. Stewart,	,,	. . . . .	Math.&N.P.	
,,	Katharine T. M'Millan,	,,	English.		
,,	George Ogilvie,	,,	English.		
,,	Janet Spens,	,,	English.		
1900	Mabel Atkinson,	England,	Mental Philosophy.	Classics.	
,,	George H. Stevenson,	Scotland,	Classics.		
,,	Robert B. Carslaw,	,,	Math. & Nat. Phil.		
,,	Peter Ramsay,	,,	Math. & Nat. Phil.		
,,	James Jack,	,,	. . . . .	Classics.	
,,	Norman R. Mitchell,	,,	. . . . .	Classics.	
,,	Matthew Babington,	,,	. . . . .	Ment. Phil.	
,,	Peter Lowe, B.Sc.,	,,	. . . . .	Math.&N.P.	

			First Class.	Second Class.	Third Class.
1900	Winifred Boyd,	India,		English.	
,,	Margaret G. Fulton,	Scotland,		Mod. Lang.	
,,	James Johnston,	do.,	Mental Philosophy.		
,,	Alex. B. Mackay,	do.,	Mental Philosophy.		
,,	Alexander Montgomerie,	do.,	Mental Philosophy.	[1] History.	
,,	David G. Taylor,	do.,	Math. and Nat. Phil. [2]Classics.		
,,	Margaret L. Anderson,	do.,	English.		
,,	Peter George Smith,	do.,		Ment. Phil.	
,,	John Charles Mann,	England,		Math.&N. P.	
,,	Roderick M. Nicol,	Scotland,		Math.&N.P.	
,,	James Miller Clark,	do.,			M.&N.P.
1901	James F. Dyer,	Japan,	Classics. [2] Economic Science.		
,,	Peter Hately Waddell,	Singapore,	Classics.		
,,	Francis P. H. Stirling,	Scotland,	Math. and Nat. Phil.		
,,	Hugh Watt,	do.,	English.		
,,	Marion K. Binnie,	do.,	Modern Languages.		
,,	William H. Buchan,	do.,		Classics.	
,,	Owen L. Jones,	Wales,		Classics.	
,,	Thomas R. M'Murtrie,	Scotland,		Classics.	
,,	Alexander Russell,	do.,		Classics.	
,,	Andrew M'Kerral,	do.,		Math.&N.P.	
,,	Arthur S. Hutchison,	do.,			Classics.
,,	[3]Thomas Jones,	do.,	Economic Science.		
,,	Dougald B. M'Quistan,	do.,	Math. and Nat. Phil.	Classics.	
,,	Steuart N. Miller,	do.,	Classics.		
,,	Charles A. Young,	do.,	English.		
,,	Stanley H. Turner,	England,	Economic Science.		
,,	John J. Gemmell,	Scotland,		Classics.	
,,	Thomas Graham,	do.,		Classics.	
,,	Jas. G. MacDonald,	Br. Cen. Africa,		Classics.	
,,	James Moyes,	Scotland,		Classics.	
,,	William R. Wiseman,	do.,		Ment. Phil.	
,,	James N. Stirling,	do.,		Math.&N.P.	
,,	Catherine Bennie,	do.,		Mod. Lang.	
,,	James H. Steel,	do.,		Econ. Sc.	
1902	Margaret A. Scott,	do.,	Modern Languages.		
,,	James M'Nabb,	do.,		Math.&N.P.	
,,	Helen M. Armour,	do.,		English.	
,,	Alexander Mackinnon,	do.,		English.	
,,	Edith M. Lindsay,	do.,		History.	
,,	[4]Frederick Mort,	do.,			M.&N.P
,,	[4]John Patterson,	do.,	English.		
,,	[5]John Macdonald Richardson,	do.,			Ec. Sc.
,,	[5]Christian Pettigrew Home Morton,	do.,		Mod. Lang.	
,,	[5]Malcolm MacAlister,	do.,		English.	

[1] Postgraduate Honours in Oct., 1901.

[2] Postgraduate Honours in April, 1901.

[3] Took the Ordinary Degree in Nov., 1900.

[4] Took the Ordinary Degree in April, 1900.

[5] Took the Ordinary Degree in April, 1901.

			First Class.	Second Class.	Third Class.
1902	William Lindsay Thompson,	do.,	Math. and Nat. Phil.	Classics.	
,,	William Holms Coats,	do.,	Classics.		
,,	Robert Kerr Goodfellow,	do.,	Classics.		
,,	John MacInnes,	do.,	Classics.		
,,	Eric James Roberts,	England,	Mental Philosophy.		
,,	Robert Alex. Houstoun,	Scotland.	Math. and Nat. Phil.		
,,	Mary Clow Cameron,	do.,	Modern Languages.		
,,	George Stewart,	do.,	History.		
,,	George Douglas Reith,	do.,		Classics. Mental Phil.	
,,	Archie Duncan Thomson,	do.,		Mental Phil.	Classics.
,,	Oliver Dryer,	do.,		Classics.	
,,	John Gordon,	do.,		Classics.	
,,	John Orr,	do.,		Classics.	
,,	Frank William Saunders,	do.,		Classics.	
,,	Margaret Hay Livingston,	do.,		Math. & N.P.	
,,	John Henderson Stewart,	do.,		Math. & N.P.	
,,	Maggie Chalmers,	do.,		Mod. Lang.	
,,	Robert Millar,	do.,			M.&N.P.
,,	Peter MacMillan,	do.,			History.
1903	George Stuart Gordon,	do.,	Classics.		
,,	Archibald Lang,	do.,	Math. and Nat. Phil.		
,,	James Hamilton Lindsay,	do.,	Math. and Nat. Phil.		
,,	John Reid Cameron,	do.,	English.		
,,	Mary Emilie Thomson,	do.,	Modern Languages.		
,,	George Beaumont,	England,		Classics.	
,,	Jas. Aitchison Milligan,	Scotland,		Classics.	
,,	Matthew Stewart,	do.,		Classics.	
,,	Harold Wilson,	do.,		Classics.	
,,	[1]Alexander Borland,	do.,		Mental Phil.	
,,	Muriel Giffen Lindsay,	do.,		Math. & N.P.	
,,	William M'Naught,	do.,		Math. & N.P.	
,,	Charles Mgkee Wright,	Ireland.			Classics.
,,	James Campbell Moir,	Scotland,			M.&N.P.
,,	Wm. Scott Branks Wilson,	do.,			M.&N.P.

BACHELORS OF SCIENCE (B.Sc.). *(O.R.)*

			Honours.	
			Natural Science.	Engineering Science.
1879	Robert F. Muirhead, C.E.,	Scotland,		Math. & Nat. Phil. II
1882	John Cleland, C.E.,	do.,		Math. & Nat. Phil. II
1883	John M'Cowan, C.E.,	do.,		Math. & Nat. Phil. II
1884	William Weir,	do.,		Math. & Nat. Phil. II
,,	James C. Todd,	India,	Math. & Nat. Phil. II	
1886	Lawrence Crawford,	Scotland,		Math. & Nat. Phil. I
1887	Angus M'Lean,	do.,		Math. & Nat. Phil. II

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[1] Took the Ordinary Degree in April, 1901.

			Honours.	
			Natural Science.	Engineering Science.
1890	James Stanley Muir,	do.,	Chemistry.	
,,	Robert Watson Smith,	do.,	Chemistry.	
1891	James Fenwick,	Australia,	. . . . .	Civil Engineering.
,,	Robert Main,	Scotland,	Chemistry.	
,,	Robert Muir Ferrier,	do.,	. . . . .	Civil Engineering.
1892	John Dewar Cormack,	do.,	. . . . .	Math. & Nat. Phil. I Civil Engineering.
,,	Jas. Blacklock Henderson,	do.,	. . . . .	Math. & Nat. Phil. I Civil Engineering.
,,	James Rankin,	do.,	Zoology and Botany.	
,,	William S. Cook,	do.,	Physiology.	
,,	David R. Boyd,	do.,	Chemistry.	
1893	James C. Robertson, M.A.,	do.,	Anat. and Physiol.	
1894	Charles Forbes,	do.,	. . . . .	Civil Engineering.
,,	Wm. Henry Lang,	England,	Botany and Zoology.	
,,	George Wm. Shearer,	Ireland,	. . . . .	Civil Engineering,
1895	Wm. Craig Henderson,	Scotland,	. . . . .	Math. & Nat. Phil. I
,,	Hugh Calderwood,	do.,	Anat. and Physiol.	
,,	John Allan Craigie Macewen,	do.,	Anat. and Physiol.	
,,	William Hamilton,	do.,	. . . . .	Civil Engineering.
,,	Campbell Macmillan,	do.,	. . . . .	Civil Engineering.
,,	Thomas Hunter, M.A.,	do.,	Anat. and Physiol.	
,,	William Martin, M.A.,	do.,	Anat. and Physiol.	
1896	William S. Templeton, M.A.,	do.,	. . . . .	Math. &. Nat. Phil I
,,	Peter L. L. Craig, M.A.,	do.,	Anat. and Physiol.	

BACHELORS OF SCIENCE (PURE SCIENCE).

Ordinance No. 12, Section ix. (1889).

		Subjects of Final Examination.			
1898	John Pinkerton Duncan,	Anatomy.	Physiology.	Zoology.	
,,	Ruth Pirret,	Mathematics.	Chemistry.	Physiology.	
,,	Daisy Annabella Murdoch Clark,	Physiology.	Zoology.	Botany.	
,,	William Anderson Lindsay, M.A.,	Mathematics.	Nat. Phil.	*Astronomy.	
,,	Allan Martin, M.A.,	Anatomy.	Physiology.	Zoology.	
1899	Robert John Tainsh Bell, M.A.,	*Mathematics.	*Nat. Phil.	*Astronomy.	
,,	Robert Macfarlane Clark,	*Mathematics.	*Nat. Phil.	Chemistry.	
,,	William Anderson,	*Mathematics.	*Nat. Phil.	*Astronomy.	
,,	James Slater Dunlop, M.A.,	Mathematics.	Nat. Phil.	Astronomy.	
,,	Robert William Stewart,	*Mathematics.	*Nat. Phil.	Chemistry.	
,,	Robert George White, M.A.,	Anatomy.	Physiology.	Zoology.	
1900	Gertrude Dorman Bostock,	Anatomy.	Physiology.	Zoology.	
,,	Kate Fraser,	Anatomy.	*Physiology.	Zoology.	
,,	William Fulton, M.A.,	*Mathematics.	Nat. Phil.	*Astronomy.	
,,	William Boyd. M.A.,	Chemistry.	Geology.	Zoology.	
,,	Joseph White, M.A.	*Mathematics.	*Nat. Phil.	Anatomy.	Physiology.

* The asterisks indicate Special Distinction in the subjects to which they are prefixed.

		Subjects of Final Examination.		
1901	James Miller Clark, M.A.,	Mathematics.	Nat. Phil.	*Astronomy.
,,	James Alex. Russell Henderson,	Mathematics.	Chemistry.	Geology.
,,	Ivy M‘Kenzie, M.A.,	Anatomy.	Physiology.	Zoology.
,,	Alexander Matheson, M.A.,	Anatomy.	Physiology.	Zoology.
,,	Alexander Wood,	Mathematics.	Nat. Phil.	*Astronomy.
,,	Robert Donald,	Chemistry.	Geology.	Zoology.
,,	Malcolm Hutton, M.A.,	Anatomy.	Physiology.	Zoology.
,,	William Hyslop, M.A.,	*Mathematics.	*Nat. Phil.	Geology.
,,	Jane Hamilton M‘Ilroy, M.A.,	Physiology.	Zoology.	Botany.
,,	John Muir,	Anatomy.	Physiology.	Geology.
1902	Frederick Mort, M.A.,	Mathematics.	Nat. Phil.	Geology.
,,	George Goldie Smith,	Anatomy.	Physiology.	Zoology.
,,	Alfred Walter Stewart,	Mathematics.	Chemistry.	Geology.
,,	David James M‘Leish, M.A.,	Anatomy.	Physiology.	Zoology.
,,	Berkeley Hope Robertson, M.A.,	Physiology.	Geology.	Zoology.
1903	John Graham,	Chemistry.	Anatomy.	Physiology.
,,	Robert Irvine, M.A.,	Mathematics.	Astronomy.	Geology.
,,	Jessie Deans Rankin, M.A.,	Anatomy.	*Physiology.	Zoology.
,,	Wm. Lindsay Thompson, M.A.,	*Mathematics.	*Nat. Phil.	Geology.

* The asterisks indicate Special Distinction in the subjects to which they are prefixed.

DOCTORS OF MEDICINE (M.D.). *(O.R.)* HONOURS.

1845	Alexander Lindsay,	Scotland.
,,	James Craigie Murray,	do.
,,	Francis Reynolds,	Ireland.
,,	John Brown,	Scotland.
,,	John Gardiner,	do.
,,	Donald Cameron,	Isle of Man.
,,	Adam Nicholson,	Scotland.
,,	John Duke,	Ireland.
1847	William Parry,	Wales.
,,	Robert Livingstone,	Scotland.
,,	Alexander B. Sharpe,	do.
1848	Charles H. Hitchen,	England.
,,	James Steven,	Scotland.
,,	John Coates,	Ireland.
1849	Robt. Brown M‘Clelland,	do.
,,	Thomas Nicholson,	Scotland.
,,	Robert Settle,	England.
,,	Richard Thomas Tracy,	Ireland.
,,	Matthew John Rae,	Scotland.
1850	John Ternan,	Ireland.
,,	John Henry Eddowes,	England.
,,	James Brash,	Scotland.
1851	Alexander Marshall,	do.
,,	Andrew Spearing,	Ireland.
,,	James B. Montgomery,	England.
,,	Robert Perry,	Scotland.
,,	John Watson, B.A.,	do.
1853	John Ritchie Brown,	do.
,,	Charles D. Campbell,	Ireland.
1853	Richard Stanistreet,	Ireland.
,,	David Knox,	do.
1854	John Lindsay Stewart,	Scotland.
,,	James Fraser Paton,	do.
,,	David Easton,	Ireland.
1855	William Leishman,	Scotland.
,,	William J. Lewis.	New Brunswick
,,	Alexander Robertson,	Scotland.
1857	Thomas Beaumont.	Ireland.
,,	Joseph M. Fleming,	Scotland.
,,	Maxwell Rodgers,	Ireland.
1858	John Couper,	Scotland.
,,	Thomas M‘Call Anderson,	do.
1859	Daniel Dougal,	do.
1861	William Marshall,	America.
,,	John M. Murray,	Scotland.
1862	James A. Allan,	do.
1863	Robert M‘K. Duncan,	do.
,,	George M‘Donald,	do.
,,	Samuel J. Moore,	Ireland.
,,	William Fraser,	Nova Scotia.
,,	T. Algernon Chapman,	Scotland.
,,	Algernon Wood Smith,	do.
,,	John P. Atkinson,	England.
1864	John Wyber.	Scotland.
,,	John G. Wilson, M.A.,	do.
1865	Arthur A. Jamieson,	England.
1867	Fred. H. Quaife, M.A.,	Sydney, N.S.W.

DOCTORS OF MEDICINE (M.D.). (*N.R.*)

1876 [1] Gardner, William, M.B., England.

1877 [1] Turner, William Y., M.B., Scotland. Thesis, "The Ethnology of the Motu."

1879 [1] Fleming, William James, M.B., Scotland. Thesis, "The Dicrotic Notch in Pulse Tracings."

1880 [1] Oliver, Thomas, M.B., Scotland. Thesis, "Heredity viewed in its relation to Responsibility."

1880 [1] Bryce, James, M.B., Scotland. Thesis, "That Mankind originated as a Common Family—most probably on a Continent in the Indian Ocean—certainly within the Tropics."

1881 [1] Adams, James Alexander, M.B., Scotland. Thesis, "Anatomical Relation between Abscess of Brain and Aural Disease."

1881 [1] Stewart, Alexander, M.B., Scotland. Thesis, "History of a Personal Attack of Typhoid Fever."

1881 [1] Drummond, James, M.B., Scotland. Thesis, "Sea Sickness: its Etiology, Symptoms, and Treatment."

1881 [1] Macphail, Donald, M.B., Scotland. Thesis, "Chemical Investigations on the Degenerative Changes in Diseased Bone."

1882 [1] Cairns. David. M.B. Thesis. "An Outbreak of Pyæmia."

1882 [1] Adam, Thomas Bate, M.B., Scotland. Thesis, "The Pathology of Elephantoid Disease."

1882 [1] Rankin, Guthrie, M.B., Scotland. Thesis, "Puerperal Fever."

1883 [1] Inglis, David Wood, M.A., M.B., Scotland. Thesis, "On the Prevention of Lead Poisoning among Workers in White Lead Factories."

1883 [1] Newman, David, M.B., Scotland. Thesis, "Displacements of the Kidney."

1884 [1] Lawrie, J. Macpherson, M.B., Scotland. Thesis, "On some Symptoms of Locomotor Ataxy."

1884 [1] Allan, Robert, M.B., Scotland. Thesis, "Dermoid Cysts."

1884 [2] Middleton, George S., M.A., M.B., Scotland. Thesis, "On the Pathology of Pseudo-Hypertrophic Muscular Paralysis."

1884 [2] Steven, John Lindsay, M.B., Scotland. Thesis, "The Pathology of Suppurative Inflammations of the Kidneys."

1885 [2] Mackay, John Yule, M.B., Scotland. Thesis, "The Origin and Development of the Larger Arteries."

1885 [1] Macvie, William, M.B., Scotland. Thesis, "Atrophic Infantile Paralysis."

1885 [1] Dougal, James, M.B., Scotland. Thesis, "Puerperal Pyrexia."

1886 [1] Lawrie, William John, M.B., Scotland. Thesis, "Pathological Formations of the Skin."

1886 [2] Somerville, William Francis, M.A., B.Sc., M.B., Scotland. Thesis, "Urosemiotic; the Pathological Chemistry of the Urine, the complete Quantitative Analysis of the Urine; a valuable aid to Clinical Diagnosis.'

1886 [2] Stewart, Robert Sloss, M.B., Scotland. Thesis, "Observations on the Spina Cord in the Insane."

1886 [1] Rankin, Alexander, M.B., Scotland. Thesis, "Cerebral Cases, with remarks.'

1886 [1] Auld, Alexander Gunn, M.B., Scotland. Thesis, "Studies in Materi Medica."

1887 [1] Chalmers, Archibald Kerr, M.B., Scotland. Thesis, "The Temperature Curv of Specific Fevers."

1887 [1] Neilson, Henry John, M.B., Scotland. Thesis, "On the observation of th pupil as a guide in the administration of Chloroform."

1887 [1] Brown, John, M.B., Scotland. Thesis, "Maternal Impressions."

1887 [1] Love, John, M.B., Scotland. Thesis, "Three cases of Cortical Epilepsy con sidered in relation to the localization of the discharging lesion."

1888 [1] Finlay, David, M.B., Scotland. Thesis, "Clinical Observations on Epilepti Insanity."

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[1] Commended for Thesis.

[2] Highly Commended.

1888 [1] Love, James Kerr, M.B., Scotland. Thesis, "The Limits of Hearing."

1888 [1] Macpherson, Charles, M.B., Scotland. Thesis, "Plural Pregnancies."

1888 [1] Wallace, William, M.B., Scotland. Thesis, "The Field of Vision: with special reference to its Anomalies in Diseases of the Nervous System."

1889 [1] Christie, William Walls, M.B., C.M., Scotland. Thesis, "The Outbreak of Febrile Disease in St. Mary's Roman Catholic Industrial Schools, Glasgow, March 1888: its Clinical Features and Nature."

1889 [1] Kelly, James Kellock, M.B., Scotland. Thesis, "Private Obstetric Practice: an analysis of 3000 consecutive cases."

1889 [1] Mackenzie, William James, M.B., India. Thesis, "The effects of the conditions of London Life on the Nervous System: with remarks on the treatment."

1889 [1] Hinshelwood, James, M.A., M.B., Scotland. Thesis, "A Clinical Study of Syphilitic Diseases of the Nervous System."

1890 [1] Anderson, John Alexander, M.B., Scotland. Thesis, "On Tetanus: with a record of six cases."

1890 [1] Bankier, Alexander Milne, M.B., England. Thesis, "Influenza."

1891 [1] Smith, John Macdowal, M.B., Scotland. Thesis, "The Disposal of Sewage and City Refuse."

1891 [2] Rhodes, Hugh, M.B., C.M., England. Thesis, "Koch's Treatment in Phthisis and Lupus."

1891 [1] Bannatyne, Gilbert Alexander, M.B., C.M., Scotland. Thesis, "The Treatment of Diphtheria by the Injection of the Erysipelas Albumose."

1891 [1] M'Gregor, Andrew Nicholson, M.B., C.M., Scotland. Thesis, "Some Notes on the Repair of Bone, with special reference to Transplantation and other Artificial Aids."

1891 [1] Ramsay, Andrew Maitland, M.B., C.M., Scotland. Thesis, "Exophthalmic Goitre."

1891 [1] Johnstone, John Carlyle, M.B., C.M., Scotland. Thesis, "Some Notes on the use of Sulphonal."

1892 [1] Highet, Hugh, M.B., C.M., Scotland. Thesis, "The Bronchiopneumonia of Influenza, as it occurs in the Adult Subject."

1892 [1] Park, Alexander Glen, M.B., C.M., Scotland. Thesis, "Defects of Speech."

1893 [1] Lang, Hugh, M.B., C.M., Scotland. Thesis, "Empyema, with Notes on a Series of Cases."

1893 [1] Gillies, Hugh Cameron, M.B., C.M., Scotland. Thesis, "The Theory of Counter-irritation."

1893 [2] Carslaw, John Howie, M.A., M.B., C.M., Scotland. Thesis, "On the severer forms of Scarlet Fever, with special reference to Antipyretic Methods of Treatment."

1893 [1] Adam, Robert Hillhouse, M.A., M.B., C.M., Scotland. Thesis, "Observations on some Enteric Fever Epidemics."

1893 [1] Bryce, Alexander, M.B., C.M., Scotland. Thesis, "Sanitation in Dairy Farms in relation to diseases attributable to Cows' Milk."

1893 [1] Dunlop, Alexander Watson, M.A., M.B., C.M., Scotland. Thesis, "A recent Epidemic of Smallpox, with some remarks on Re-Vaccination."

1893 [1] Gemmell, William, M.B., C.M., Scotland. Thesis, "On the Treatment of Phthisis by a long Sea Voyage in a sailing ship."

1893 [1] Watson, William, M.B., C.M., Scotland. Thesis, "The Prevention and Treatment of Diphtheria."

1894 [1] Johnston, John M'Cubbin, M.A., M.B., C.M., Scotland. Thesis, "The Prognosis of Acute Lobar Pneumonia in the Pauper Class."

1894 [2] Jack, William Robert, B.Sc., M.B., C.M., Scotland. Thesis, "Observations on the Analysis of Voluntary Muscular Movements by certain new Instruments."

1895 [1] Abercrombie, Peter Henderson, M.B., C.M., Scotland. Thesis, "Turbinotomy in Nasal Stenosis: Analysis and Notes of 66 cases."

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[1] Commended for Thesis. [2] With Honours.

1895 [2] Monro, Thomas Kirkpatrick, M.A., M.B., C.M., Scotland. Thesis, "Essays in Neurology; Historical and Clinical."

1895 [1] Banks, Charles, M.B., C.M., Scotland. Thesis, "Observations on Epidemics of Cholera in India with special reference to their immediate connection with pilgrimages."

1895 [1] Bell, Andrew Lees, M.B., C.M., Scotland. Thesis, "The Influence of a previous sire, and its relation to maternal impressions."

1895 [1] Campbell, Finlay Stewart, M.B., C.M., Scotland. Thesis, "Paroxysmal Haemoglobinuria: its treatment with special reference to the arrest of the Paroxysm by Quinine."

1895 [1] Charles, John, M.B., C.M., Scotland. Thesis, "A contribution to the Meteorology of Sporadic Pneumonia."

1895 [1] Macgregor, John, M.B., C.M., Scotland. Thesis, "On Paralysis following Diphtheria in Children."

1895 [1] Edington, George Henry, M.B., C.M., Scotland. Thesis, "Bile Salts (Glycocholate and Taurocholate Soda) in relation to excretion of Urea, etc."

1895 [1] Hughes, Arthur Davies, M.B., C.M., Wales. Thesis, "Anchylostomiasis."

1895 [1] Marr, Hamilton Clelland, M.B., C.M., Scotland. Thesis, "On Myxoedema and the Functions of the Thyroid Gland: with notes on the treatment of certain cases of Insanity by Thyroid preparations."

1896 [1] Marshall, Robert James, M.B., C.M., Scotland. Thesis, "The mild Malaria Fevers and their Microbe."

1896 [1] Dittmar, Frederick, M.A., M.B., C.M., Scotland. Thesis, "Scarlatinal Albuminuria."

1896 [1] Gray, Albert Alexander, M.B., C.M., Scotland. Thesis, "An Investigation into some of the Principles of Auscultation."

1896 [1] Nisbet, Adam Thomson, M.B., C.M., Scotland. Thesis, "Observations on some cases of Liver Abscess."

1896 [1] Todd, James, M.B., C.M., Scotland. Thesis, "Puerperal Scarlatina."

1896 [2] Kennedy, Robert, M.A., B.Sc., M.B., C.M., Scotland. Thesis, "Studies on the Regeneration of Nerves."

1896 [1] Kirkland, Thomas Speirs, M.B., C.M., Scotland. Thesis, "Quinine Amaurosis."

1897 [1] Don, William Walton, M.B., C.M., England. Thesis, "Thyroid Therapeutics."

1897 [1] Hunter, Walter King, B.Sc., M.B., C.M., Scotland. Thesis, "A contribution to the Etiology of Beri-Beri."

1897 [1] Thomson, James, M.B., C.M., Scotland. Thesis, "Exophthalmic Goitre, with special reference to its treatment by Thymus Gland."
on some Enteric Fever Epidemics."

1897 [2,3] Thomson, Robert Stevenson, B.Sc., M.B., C.M., Scotland. Thesis, "Pertussal Glucosuria, with observations on the reduction of Fehling's solution by the urine in childhood."

1897 [1] Brownlee, John, M.A., M.B., C.M., Scotland. Thesis, "The Diagnosis and Hospital Administration of Scarlatina."

1897 [1] Galloway, Andrew Fleming, M.B., C.M., Scotland. Thesis, "Movable Kidney: its Aetiology and Symptoms."

1897 [1] Harris, David Fraser, B.Sc., M.B., C.M., Scotland. Thesis, "A Research into the Spectroscopy of Blood-pigment, and its derivatives in health and disease."

1897 [1] Seright, William, M.B., C.M., Scotland. Thesis, "Neurasthenia (nervous exhaustion): a review of the origin and growth of the term, frequency of the disease, and of its chief forms and classifications, symptoms, diagnosis, prognosis, theories, and treatment."

[1] Commended for Thesis. [2] With Honours.
[3] Gained a Bellahouston Gold Medal.

1897 [1] Temple, Lewis Dunbar, M.B., C.M., Scotland. Thesis, "Sporadic Cretinism and allied disorders."

1897 [1] Wylie, Richard John, M.B., C.M., Scotland. Thesis, "Pneumonia, with notes on twenty-nine cases."

1898 [1] M'Kenzie, Daniel, M.B., C.M., Scotland. Thesis, "Endemic Goitre, with particular reference to its occurrence in Lanarkshire, and to its Etiology."

1898 [1] Bell, Robert Gordon, M.B., C.M., Scotland. Thesis, "Enteric Studies, chiefly in Aberrant Types."

1898 [2,3] Findlay, John Wainmann, M.B., C.M., Scotland. Thesis, "The Choroid Plexuses of the Lateral Ventricles, their Anatomy, Functions, and Pathology (in relation specially to Insanity)."

1898 [1] Wilson, James Dunlop Octavus, M.B., C.M., Scotland. Thesis, "Adenoid Vegetations in the Nasopharynx; a Clinical and Pathological Study of 214 Cases."

1898 [1] Biernacki, John Thomson, M.B., C.M., India. Thesis, "Secondary Microbic Invasion occurring in the course of the Commoner Fevers."

1898 [1] Thomson, Henry Hyslop, M.B., C.M., Scotland. Thesis, "Epilepsy: a theory as to its probable cause, with some remarks regarding its relation to Insanity and Hysteria."

1898 [1] Webster, Alfred, M.B., C.M., England. Thesis, "Cardiac Inhibition in relation to Cerebral Anæmia and Epileptiform Crises."

1899 [1] Marshall, Campbell Samson, M.B., C.M., Scotland. Thesis, "Antistreptococcus Serum; its application in the treatment of Scarlatina Anginosa."

1899 [1] Primrose, Edward James, M.A., M.B., C.M., Scotland. Thesis, "Notes on the Method and on the Diagnostic Value of the Serum Reaction (Widal's Test) in Enteric Fever; with a record of 149 examinations of Serum made in 57 cases of Enteric Fever, and in 22 other cases."

1899 [2,3] Hawthorne, Charles Oliver, M.B., C.M., England. Thesis, "Studies in Clinical Medicine."

1899 [1] Blair, David, M.A., M.B., C.M., Scotland. Thesis, "Acromegaly with Insanity."

1899 [1] Gordon, John, M.B., C.M., Scotland. Thesis, "Tuberculin: as a remedy for Lupus, and its position as a Therapeutic Agent in the treatment of Phthisis Pulmonalis."

1899 [1] Kerr, Hugh, M.A., M.B., C.M., Scotland. Thesis, "Recurrent Insanity."

1899 [1] Scott, Robert, M.B., C.M., Australia. Thesis, "A review of Hydatid Disease in Australasia during the decennial period 1888-97."

1899 [2,3] M'Kendrick, John Souttar, M.B., C.M., Scotland. Thesis, "Zymolysis of Tissue, Physiological and Pathological, with a historical *résumé* of the nature and action of Enzymes."

1899 [2,3] Scobie, William, M.A., B.D., M.B., C.M., Scotland. Thesis, "The agglutinating reaction in Enteric Fever, with special reference to Prognosis."

1899 [1] Gray, John Gilchrist, M.B., C.M., Scotland. Thesis, "Albuminuria and Nephritis occurring in connection with Scarlet Fever in combination with Varicella, the Varicella occurring during the acute stage or during the period of convalescence."

899 [1] Macharg, William Edgar, M.B., C.M., Scotland. Thesis, "An analytical account of fifty-seven cases of Puerperal Infection."

899 [1] Ormond, James Service, M.B., Ch.B., Australia. Thesis, "Some results of treatment as illustrated by the Sphygmograph."

900 [2,3] James Fairlie Gemmill, M.A., M.B., C.M., Scotland. Thesis, "A Teratological Study."

900 [1] James Adam, M.A., M.B., C.M., Scotland. Thesis, "Remarks on the nature and treatment of Asthma."

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[1] Commended for Thesis. [2] With Honours.
[3] Gained a Bellahouston Gold Medal.

1900 [1] William Carrick Allan, M.B., C.M., Scotland. Thesis, "Extra-Uterine Pregnancy."

1900 [1] John Laird Yuill, M.B., C.M., Scotland. Thesis, "On the Mental Deterioration in Epilepsy and Hemiplegia."

1900 [1] Leslie Buchanan, M.B., C.M., Ireland. Thesis, "Cyclitis: a Study of the inflammatory exudates into the vitreous body in cases of Cyclitis."

1900 [1] Malcolm Alexander M'Intyre Sinclair, M.B., C.M., England. Thesis, "A Study in Aphasia, with special reference to some of its transitory manifestations."

1900 [1] Annie Louise M'Ilroy, M.B., Ch.B., Ireland. Thesis, "Tubal Gestation: its pathology and diagnosis, as illustrated by the record of twenty-two cases."

1901 [1] Alfred George Newell, M.B., C.M., India. Thesis, "Insanitary Areas and Houses in Bombay and their relation to Plague, with schemes for improvement of Areas."

1901 [2 3] David Louis Cairns, M.B., Ch.B., Scotland. Thesis, "Researches on the agglutinating and prophylactic properties of Blood Serum in cases of Plague, with observations on the haematology and bacteriology of the disease."

1901 [1] John Aitken, M.B., Ch.B., Scotland. Thesis, "Blood Counts in the New Born."

1901 [1] Arthur James Ballantyne, M.B., Ch.B., Scotland. Thesis, "Affections of the Eye due to injury by blunt objects."

1901 [1] George Coats, M.B., Ch.B., Scotland. Thesis, "Unilateral Haemorrhagic Retinitis and Haemorrhagic Glaucoma."

1901 [1] John Henderson, M.B., Ch.B., Scotland. "Thesis, "Observations on the Maternal Blood at term and during the puerperium."

1901 [1] James Donald Rae Monro, M.A., M.B., C.M., Scotland. Thesis, "A study of Appendicitis in general practice, with an analysis of thirty-six cases."

1902 [2] Alexander Robert Ferguson, M.B., C.M., England. Thesis, "The Leucocytosis of Variola, with a study of the haematopietic organs in the disease, and also of the lesions of the skin."

1902 [1] Andrew Wilson, M.B., C.M., Scotland. Thesis, "A clinical study of the relation of Syphilis to Diseases of the Eye."

1902 [1] Andrew Colville Wilson, B.Sc., M.B., C.M., Scotland. Thesis, "The Medullated Fibres of the Cerebral Cortex."

1903 [2 3] George Lamb, M.B., C.M., Scotland. Thesis, "On the action of the venoms of the Cobra (Naja Tripudiana) and of the Daboia (Daboia Russellii) on the red blood corpuscles and on the blood plasma."

1903 [2 3] William Glen Liston, M.B., Ch.B., India. Thesis, "Aetiology of Malaria."

1903 [1] Charles Campbell Cuthbert, M.A., M.B., Ch.B., Scotland. Thesis, "A clinical study of Renal cases."

1903 [1] James M'Haffie, M.B., Ch.B., Scotland. Thesis, "On the complications occurring in 600 consecutive cases of Scarlatina."

1903 [1] Jean Effie Prowse, M.B., Ch.B., England. Thesis, "The relation of Vesicular Mole to Chorion Carcinoma."

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[1] Commended for Thesis. [2] With Honours. [3] Gained a Bellahouston Gold Medal.

BACHELORS OF MEDICINE (M.B.). HONOURS.

.866	Robert W. Forrest,	Scotland.
,,	Henry T. Pringle,	,,
.867	Ebenezer Duncan,	,,
,,	Joseph Coats,	,,
,,	James Finlayson,	,,
1868	Thomas Barr,	,,
,,	William MacLachlan,	,,
,,	Angus Macmillan,	,,
1869	James Coats,	,,
1871	David Wilkie,	,,
,,	John Aikman,	,,
1872	John D. Macdonald,	,,
,,	Samson Gemmell,	,,
1876	Geo. S. Middleton, M.A.,	,,
,,	Richard B. Macpherson,	,,
1877	Johan B. Knobel,	Africa.
,,	Donald Macphail,	Scotland.
,,	John Carlyle Johnstone,	,,
,,	Edward D. M. Mackellar,	,,
.878	Alexander Fraser,	,,
,,	James Morton,	,,
,,	William Partington,	,,
,,	Lawrence A. Waddell,	,,
1879	William K. Peden,	,,
,,	Ralph D. Stevenson,	Australia.
.880	Andw. A. Hogarth, M.A.,	Scotland.
,,	J. M'Gregor-Robertson, M.A.,	,,
,,	John Lindsay Steven,	,,
.881	John More Young, M.A.,	,,
882	Robert Beith,	,,
1883	John Innes Dunlop,	,,
1884	Charles O. Hawthorne,	England.
1886	Alexander Bryce,	Scotland.
,,	Wm. Snodgrass, M.A.,	U.S.A.
,,	John H. Carslaw, M.A.,	Scotland.
1887	William MacLennan,	,,
1891	Hugh Galt,	,,
,,	Robert Currie Robertson, M.A.,	,,
1892	John Morton,	,,
,,	James Carslaw, M.A.,	,,
1894	Alexander MacLennan,	,,
,,	Wm. Stewart Cook, B.Sc.,	,,
,,	Jas. C. Robertson, M.A., B.Sc.,	,,
,,	Jas. Murray Young,	,,
,,	John Francis Robt. Gairdner,	,,
,,	John Wainman Findlay,	,,
1895	Joshua Ferguson, M.A.,	,,
,,	Henry Alex. Pattullo,	,,
,,	Ernest A. Walker, M.A.,	Scotland.
1896	John Knight,	,,
,,	Madge Speirs Maclean,	,,
1897	John A. C. Macewen, B.Sc.,	,,
,,	Thomas Hunter, M.A., B.Sc.,	,,
1898	Wm. Kilpatrick Hutton, M.A.,	,,
,,	Robert Fullarton, M.A.,	,,
,,	William Webster,	,,
1899	Alex. Laurie Watson, M.A.,	,,
1900	Charles Campbell Cuthbert, M.A.	,,
,,	James Dunlop Lickley,	England.
1901	Alex. Dey Thompson,	Scotland.
,,	William Macalister Brown,	,,
1902	Andrew Miller Kerr,	,,
,,	Joseph White, M.A., B.Sc.,	,,
,,	John Morison,	India.

BRUNTON MEMORIAL PRIZE OF £10,

Awarded to the most distinguished Graduate in Medicine of the year.

1880. John Lindsay Steven, M.B., C.M.
1881. John More Young, M.A., M.B., C.M.
1882. Robert Beith, M.B., C.M.
1883. John Innes Dunlop, M.B., C.M.
1884. Charles Oliver Hawthorne, M.B., C.M.
1885. Andrew Wilson, M.B., C.M.
1886. Alexander Bryce, M.B., C.M.
1887. William MacLennan, M.B., C.M.
1888. Landel Rose Oswald, M.B., C.M.
1889. William Robert Jack, B.Sc., M.B., C.M.
1890. George Lamb, M.B., C.M.
1891. Hugh Galt, M.B., C.M.
1892. John Morton, M.B., C.M.
1893. John Johnson Urwin, M.B., C.M.
1894. Alexander MacLennan, M.B., C.M.
1895. Joshua Ferguson, M.A., M.B., C.M.
1896. John Knight, M.B., C.M.
1897. John Allan Craigie Macewen, B.Sc., M.B., C.M. } Equal.
,, Thomas Hunter, M.A., B.Sc., M.B., Ch.B. }
1898. William Kilpatrick Hutton, M.A., M.B., C.M.
1899. Alex. Laurie Watson, M.A., M.B., Ch.B.
1900. Charles C. Cuthbert, M.A., M.B., Ch.B.
1901. Alex. Dey Thompson, M.B., Ch.B.
1902. Andrew Miller Kerr, M.B., Ch.B.

THOMAS LOGAN MEDAL AND PRIZE,

Awarded to the most distinguished Graduate in Arts of the year.

1888. Ernest Findlay Scott, M.A.
1889. Alfred Ernest Garvie, M.A.
1890. John Edgar M'Fadyen, M.A.
1891. James Holm, M.A.
1892. Daniel Lamont, M.A.
1893. Gilchrist Gibb Alexander, M.A.
1894. Henry Noel Brailsford, M.A.
1895. William King Gillies, M.A.
1896. George Donald Valentine, M.A.
1897. Gavin Scott, M.A.
1898. John Lyle Morison, M.A.
1899. John Lochhead, M.A.
1900. Mabel Atkinson, M.A.
1901. Dougald Black M'Quistan, M.A.
1902. William Lindsay Thompson, M.A.

XII.—DEGREE AND PRIZE LIST.

LIST OF DEGREES

Conferred in the various Faculties and of Prizes and Certificates of Honour Awarded in the several Classes of the University during the Year ending 1st May, 1903.

DOCTORS OF DIVINITY (D.D.).

April, 1903.

Rev. Alfred Ernest Garvie, B.D., Congregational Minister, Montrose.

Rev. Frederick Langham, for many years missionary of the Wesleyan Church in the Fiji Islands.

The Venerable William Macdonald Sinclair, D.D., Archdeacon of London and Canon of St. Paul's, Honorary Chaplain to the King.

Rev. John Smith, B.D., Minister of Partick, and Chairman of School Board of Govan.

Rev. John Wilson, M.A. (1845), Minister of Dysart from 1850 to 1859, and of Methven since 1859.

Rev. John Wilson, M.A. (1868), Minister of Free Church at Abernyte from 1873 to 1886, now engaged in literary work, and residing at Lausanne.

DOCTORS OF LAWS (LL.D.).

July, 1902.

Paul Haupt, Professor of Semitic Languages in the Johns Hopkins University, Baltimore, U.S.A.

April, 1903.

Alexandre Beljame, Professor of English Language and Literature, University of Paris.

Sir William Tennant Gairdner, K.C.B., M.D., F.R.S., Emeritus Professor of Medicine in the University of Glasgow.

Sir Joseph Norman Lockyer, K.C.B., F.R.S., Director of Solar Physics Observatory, South Kensington.

George Neilson, F.S.A.Scot., Procurator-Fiscal, Glasgow, Author of "Huchown of the Awle Ryale," and other literary and antiquarian publications.

Thomas Oliver, M.A., M.D., Professor of Physiology in the University of Durham.

Philip Watts, F.R.S., Director of Naval Construction, Admiralty, London.

James M'Neill Whistler, Officer of the Legion of Honour, Member of the National Society of French Artists, etc.

BACHELORS OF DIVINITY (B.D.).

November, 1902—James Robertson Sweet Wilson, M.A.

April, 1903.

John Thomas Arnott, M.A.
Matthew Babington, M.A.
Donald M'Gilvray Beaton, M.A.
Brodie Smith Gilfillan, M.A.
William Alexander Gillies, M.A.
Norman Reid Mitchell, M.A.
James Chrystal Muir, M.A.
John Marshall Pryde, M.A.
William Marshall Tait, M.A.
Arthur Penrhyn Stanley Tulloch, M.A.

BACHELORS OF LAWS (LL.B.).

November, 1902.

Joseph Barnes, M.A.
William Boyd Berry, M.A.
Alexander M'Donald, M.A.
George Edward Bell Osborne, M.A.

April, 1903.

James Austin, M.A.
Douglas Alexander Bannatyne, B.A.[1]
Samuel Hugh Dow, M.A.
William Woodburn, Gillan, M.A.
John Dalrymple Johnston, M.A.[1]
Roderick Macdonald Nicol, M.A.[1]
George Wilkie, M.A.

BACHELORS OF LAW (B.L.).

November, 1902.

John M'Clure Brodie.
George Brisbane Chalk.
John Alexander Anderson Love.
James White M'Cutcheon, M.A.
John Colledge Turnbull.

April, 1903.

Robert William Bell, M.A.
John Gray, M.A.
Henry Lindsay Menzies.

DOCTORS OF MEDICINE (M.D.).

July. 1902.

I. WITH COMMENDATION.

Andrew Wilson, M.B., C.M., Scotland. Thesis, "A Clinical Study of the Relation of Syphilis to Diseases of the Eye."

Andrew Colville Wilson, B.Sc., M.B., C.M., Scotland. Thesis, "The Medullated Fibres of the Cerebral Cortex."

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[1] With Distinction.

II. ORDINARY DEGREE.

Hugh Wright Thomson, M.B., C.M., Scotland. Thesis, "A Clinical Study of Tobacco Blindness, with an investigation into its relationship to certain symptoms other than ocular."

November, 1902.

I. WITH HONOURS.

George Lamb, M.B., C.M., Scotland. Thesis, "On the Action of the Venoms of the Cobra (Naja Tripudians) and of the Daboia (Daboia Russellii) on the Red Blood Corpuscles and on the Blood Plasma."

William Glen Liston, M.B., Ch.B., India. Thesis, "Aetiology of Malaria."

II. WITH COMMENDATION.

Charles Campbell Cuthbert, M.A., M.B., Ch.B., Scotland. Thesis, "A Clinical Study of Renal Cases."

James M'Haffie, M.B., Ch.B., Scotland. Thesis, "On the Complications occurring in 600 consecutive cases of Scarlatina."

Jean Effie Prowse, M.B., Ch.B., England. Thesis, "The Relation of Vesicular Mole to Chorion Carcinoma."

III. ORDINARY DEGREE.

George Gardner, M.B., Ch.B., Scotland. Thesis, "The Prophylaxis of Mastitis, with special reference to the Puerperium."

Alexander Garrow, M.B., Ch.B., England. Thesis. "A Clinical Study of Primary Intrathoracic New-growth, with special reference to the variety Lymphosarcoma."

Archibald Jubb, M.B., Ch.B., Scotland. Thesis, "Observations on some cases of Pleural Effusion and Empyema."

Johan Balthazar Knobel, M.B., Africa. Thesis, "Some Remarks on the Professional Experience of a General Medical Practitioner in Pretoria, Transvaal."

James Ferguson Lees, M.B., C.M., Scotland. Thesis, "Enteric Fever, with some suggestions for its avoidance in warfare."

James Livingstone Loudon, M.B., C.M., Scotland. Thesis, "Cases characterised by the Expectoration of Bronchial Casts, with a short Essay on Plastic or Fibrinous Bronchitis."

Joseph Wilkie Scott, M.B., Ch.B., Scotland. Thesis, "Diachylon Poisoning."

Joseph Milton Thornley, M.B., C.M., England. Thesis, "Pathological Changes in Diseases of the Liver, especially in relation to the Changes in the Bile Ducts and the Production of Cirrhosis."

John Doctor Young, M.B., Ch.B., Scotland. Thesis, "The Value of Uterine Curettings and Wedges from Cervix as diagnostic aids, especially considered with reference to diagnosis of Carcinoma."

April, 1903.

ORDINARY DEGREE.

William Russell, M.B., C.M., Scotland. Thesis, "Summer Diarrhœa: its causes and prevention."

BACHELOR OF MEDICINE AND MASTER IN SURGERY (M.B., C.M.).

July, 1902.

Thomas Small Goodwin, Scotland.

BACHELORS OF MEDICINE AND BACHELORS OF SURGERY (M.B., Ch.B.)

July, 1902.

I. Honours.

Andrew Miller Kerr,	Scotland.
Joseph White, M.A., B.Sc.,	,,
John Morison,	India.

II. Commendation.

William George Rodger,	Scotland.
James Crawford Ross,	,,
Alexander Grey Banks,	,,
John Muir, B.Sc.,	,,
Ivy M'Kenzie, M.A., B.Sc.,	,,
Ernest David Jackson,	Scotland.
Thomas Irby Wallace,	,,
John Guthrie,	New Zealand.
David Riddell,	Scotland.

III. Ordinary Degrees.

W. Kirkpatrick Anderson,	Scotland.
William Armitage,	,,
Robert James Arthur,	,,
James Campbell Bringan,	,,
Margaret Edith Bryson,	,,
Angus Campbell,	,,
Robert Harold Campbell,	,,
John Sheddon Dale,	,,
Alexander Dick,	,,
Donald Douglas, M.A.,	,,
Andrew Robertson Dow,	,,
James Drummond.	,,
George Ferguson,	,,
John Ferguson, M.A.,	,,
Eric Dalrymple Gairdner,	,,
William White George,	England.
John Miller Gordon,	South Africa.
John Andrew Hagerty,	Scotland.
Ronald Dingwall Hodge,	,,
John Brown Dalzell Hunter,	,,
Neil M'Call Hutchison.	,,
George Rutherford Jeffrey,	,,
William Fletcher Kay,	,,
John Kennedy,	,,
Robert Laurie,	,,
Archibald Leitch,	,,
Stanley Everard Lewis,	Jamaica.
Joseph Paterson Lusk,	Scotland.
Alexander Macintyre,	,,
John Chancellor M'Kenzie,	Scotland.
Alexander Maclean,	,,
Alexander M'Gaw M'Millan,	,,
Dugald Henry Macphail,	Jamaica.
Richard Makins,	Scotland.
Robert Harry Manson,	,,
Janet Thomson Miller,	,,
William Alexander Milne,	,,
Alexander John Mitchell,	England
Allan Dixon Mitchell,	Scotland.
James Stuart Nicolson,	,,
James Nimmo Prentice,	,,
John Mark Reid,	,,
John Walker Renton,	,,
Thomas Richmond,	,,
Norman Cumming Rogers,	Chili.
Andrew Taylor Ross,	Scotland.
James Russell,	,,
James Smith,	,,
John Williamson Smith,	,,
Robert Cassels Smith,	,,
David Spence,	,,
John Stevenson,	Ireland.
John Barbour Stewart,	Scotland.
Joseph Swinburn Townley,	England.
William Wagner Turner,	Scotland.
Alexander Brown Watt,	,,
David Ashley Wilson,	,,

November, 1902.

I. With Commendation.

George Clark, Scotland.

II. Ordinary Degrees.

John Cairns Christie, M.A.,	Scotland.
Hugh William Crawford,	,,
Mitchell Innes Dick,	,,
Alex. Armstrong MacFarlane.	,,
David D. Fraser Macintyre,	,,
John Matheson Mackellar,	Scotland.
Harry Somerville Martyn, M.A.	,,
Robert Menzies,	,,
William Robertson (Blackwood),	,,
Malcolm B. Gathorne Sinnette,	,,

DOCTORS OF SCIENCE (D.Sc.)

April, 1903.

James Buchanan, M.A. Thesis, "Series of Mathematical Papers on (1) Oscillations of a Spheroid in a Viscous Fluid, (2) Certain Quadrature Formulæ."

Thomas Hugh Miller, M.A. Thesis, "Series of Papers, including, *inter alia* (1) Proof of Lagrange's Theorem, (2) A Discussion, Numerical and Geometrical, of the Roots of the Equation $\cos x=x$.

BACHELORS OF SCIENCE (B.Sc.)

November, 1902.

In Pure Science.

David James M'Leish, M.A.
Berkeley Hope Robertson, M.A.

In Engineering.

William M'Gill Gray.
William Barnett Harvey.
William Campbell Houston.[1]
Neil Boyd Macmillan.
John Findlay Muir.
William Frank Robertson.
Kouji Satow.
Frederick Robert Stewart.

April, 1903.

In Pure Science.

John Graham.
Robert Irvine, M.A.
Jessie Deans Rankine, M.A.[2]
William Lindsay Thompson, M.A.[3]

In Engineering.

Hugh de Paynesley Birkett.
William Henry Dorman Bostock.
William Jackson Crawford.
Thomas Grant Dempster.
James Black Dickie.
James Gordon Gray.[4]
Charles Henry Lobban.
Hugh Alexander Mackay.
Neil John Maclean.[5]
John Martin.[6]
Clive Macfarlane Primrose.
Fryer Thomas Acheson Smyth.
James Edward Steele.
James Summers.[7]
John Younger.[8]

In Agriculture.

John Porter.

CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

November. 1902.

Manuel Ireneo Bianchi.
William Barnett Harvey.
Niel Boyd Macmillan.
John Findlay Muir.
William Frank Robertson.
Kouji Satow.

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[1] With Special Distinction in (*a*) Engineering and Drawing. (*b*) Electricity, Pure and Applied.

[2] With Special Distinction in Physiology.

[3] With Special Distinction in (*a*) Mathamatics, (*b*) Natural Philosophy.

[4] With Special Distinction (*a*) Mathematics, (*b*) Natural Philosophy, (*c*) Physical Laboratory, (*d*) Electricity, Pure and Applied.

[5] With Special Distinction in (*a*) Natural Philosophy, (*b*) Engineering and Drawing, (*c*) Electricity, Pure and Applied.

[6] With Special Distinction in Engineering Laboratory, Electrical.

[7] With Special Distinction in (*a*) Physical Laboratory, (*b*) Engineering and Drawing, (*c*) Electricity, Pure and Applied.

[8] With Special Distinction in Engineering Laboratory, Mechanical.

April, 1903.

William Jackson Crawford.
Charles Henry Lobban.
Hugh Alexander Mackay.
John Martin.
James Edward Steele.

MASTERS OF ARTS (M.A.).

July, 1902.

Annie Agnes Baird.

November, 1902.

I. With Honours.

With First-Class Honours in Mathematics and Natural Philosophy, and Second-Class Honours in Classics.

William Lindsay Thompson.

With First-Class Honours in Classics.

William Holms Coats.
Robert Kerr Goodfellow.
John MacInnes.

With First-Class Honours in Mental Philosophy.

Eric James Roberts.

With First-Class Honours in Mathematics and Natural Philosophy.

Robert Alexander Houstoun.

With First-Class Honours in Modern Languages.

Mary Clow Cameron.

With First-Class Honours in History.

George Stewart.

With Second-Class Honours in Classics and Second-Class Honours in Mental Philosophy.

George Douglas Reith.

With Second-Class Honours in Mental Philosophy and Third-Class Honours in Classics.

Archie Duncan Thomson.

With Second-Class Honours in Classics.

Oliver Dryer.
John Gordon.
John Orr.
Frank William Saunders.

With Second-Class Honours in Mathematics and Natural Philosophy.

Margaret Hay Livingston.
John Henderson Stewart.

With Second-Class Honours in Modern Languages.

Maggie Chalmers.

With Third-Class Honours in Mathematics and Natural Philosophy.

Robert Millar.

With Third-Class Honours in History.

Peter MacMillan.

II. Ordinary Degree.

Dorothy Ackland.
Janet Robertson Aird.
Robert Alexander.
London Arneil.
Norman Annandale Black.
Thomas Cant.
James Cochrane.
John Henderson Edgar.
George Ferguson.
John Guthrie.
John Hair (Thornhill).
John Rodger Haldane.
George Thomson Harvey.
Robert Henderson.
Alice Beatrice Hudson.
William Jamieson.
Alexander MacBean.
Isabella M'Haffie.
Murdoch M'Iver.
Alexander Macleod.
Ebenezer Macmillan.
William Millar.
Thomas Edward Morton.
Jannette Reid Bartholomew Nelson.
Allan Marshall Ritchie.
William Steel Rutherford.
Mary Graham Sinclair.
William Wallace.
Edward Hunter Wardrop.
James Alexander Wotherspoon.

April, 1903.

I. With Honours.

With First-Class Honours in Classics.

George Stuart Gordon.

With First-Class Honours in Mathematics and Natural Philosophy.

Archibald Lang.
James Hamilton Lindsay.

With First-Class Honours in English.

John Reid Cameron.

With First-Class Honours in Modern Languages.

Mary Emilie Thomson.

With Second-Class Honours in Classics.

George Beaumont.
James Aitchison Milligan.
Matthew Stewart.
Harold Wilson.

With Second-Class Honours in Mathematics and Natural Philosophy.

Muriel Giffen Lindsay.
William M'Naught.

With Third-Class Honours in Classics.

Charles Mgkee Wright.

With Third-Class Honours in Mathematics and Natural Philosophy.

James Campbell Moir.
William Scott Branks Wilson.

II. Ordinary Degree.

Colin Black Adam.
William Andrew Alcorn.
John Anderson (Langside).
John Baillie.
Andrew Cumming Baird.
Edgar Barnes.
William Duncan Thomson Black.
Duncan Blair.
Alexander Brown.
John Brown.
William Brown (Bothwell).
James Burns.
John Sawers Clark.
John Colquhoun.
Thomas Kinnear Cook.
Arthur Aitken Cowan.
Frederick Gordon Cromar.
Agnes Waugh Drape.
Andrew Rae Duncan.
Charles Blackwood Farmer.
John Alexander Findlay.
John MacPherson Fleck.

John Alexander Fleming.
Sarah Morton Fullarton.
Annie Isabel Galbraith.
William Gillan.
Weir Grieve.
William Crawford Grieve.
Hugh Boyd Guthrie.
Margaret Arthur Harvey.
William Watson Henderson.
Jane Cumstie Williamson Herriot.
James Hunter.
Jennie Cameron Hunter.
Jenny Gibson Hunter.
John Hutcheson.
Robert Jackson.
George Johnstone Jeffrey.
Samuel Johnstone.
Margaret Crow Kettle.
Margaret Montgomerie Killin.
Lily Donaldson Laird.
William Macskimming Lindsay.
George William M'Allister.
William M'Bride.
Hugh M'Dougall.
James M'Fadyen.
Duncan M'Laren.
William M'Pheat.
John M'Phee.
Frances Mary M'Phun.
Andrew M'Shee.
Angus John M'Vicar.
Margaret Mair.
William Risk Malcolm.
William Robert Merry.
John Clark Middleton.
James William More.
Lina Morrison.
Euphemia Helen Hunter Muir.
Morton Mungo Muir.
Alexander Murray.
Thomas Nelson.
Robert Ralston Ness.
Clark Nicholson.
John Boyd Orr.
Agnes Picken.
Leyton Price Richards.
Thomas Park Riddell.
Jane Isabel Robertson.
Richard Dunn Robertson.
George Ross.
Janet Stewart Routledge.
Agnes Dalziel Scorgie.
John M'Naught Scott.
John Selfridge.
John Fraser Steven.
William Strachan.
John Archibald Glover Thomson.
Robert Cleghorn Thomson.
Malcolm Kerr Turner.
Robert Dickie Watt.
Thomas Morrison Watt.
Marion Weir.
John Whitelaw.
John Murray Wright.
Robert Comingo Young.

DIPLOMA IN EDUCATION.

May, 1903.

Diploma with Distinction in Mathematics and Science.

Frederick Mort, M.A., B.Sc.

General Diploma.

Malcolm M'Alister, M.A.

DEPARTMENTAL CERTIFICATES.

I. FOR DEGREE OF B.D.

FIRST DEPARTMENT—*October*, 1902.

Arnott, John Thomas, M.A.
Babington, Matthew, M.A.
Beaton, Donald M'Gilvray, M.A.
Gilfillan, Brodie Smith, M.A.
Gillies, William Alexander, M.A.
Mitchell, Norman Reid, M.A.
Pryde, John Marshall, M.A.
Runciman, James Watson, M.A.
Tait, William Marshall, M.A.
Tulloch, Arthur Penrhyn Stanley, M.A.
Turner, George Douglas, M.A.
Wilson, James Robertson Sweet, M.A.

FIRST DEPARTMENT—*April*, 1903.

Macleod, Kenneth Olaus, M.A.
Muir, James Chrystal, M.A.

SECOND DEPARTMENT—*April*, 1903.

Arnott, John Thomas, M.A.
Babington, Matthew, M.A.
Beaton, Donald M'Gilvray, M.A.
Gilfillan, Brodie Smith, M.A.
Gillies, William Alexander, M.A.
Gilmour, John, M.A.
Mitchell, Norman Reid, M.A.
Muir, James Chrystal, M.A.
Otty, John Edgar Sugden, M.A.
Pryde, John Marshall, M.A.
Rutherford, William Steel, M.A.
Tait, William Marshall, M.A.
Tulloch, Arthur Penrhyn Stanley, M.A.
Williamson, Alexander, M.A.

II. FOR DEGREES IN LAW.

OLD REGULATIONS.

For Degree of B.L.

IN CONVEYANCING.

October, 1902.

Brodie, John M'Clure.
Turnbull, John Colledge.

IN CONSTITUTIONAL LAW AND HISTORY.

October, 1902—Turnbull, John Colledge.

NEW REGULATIONS.

I. For Degree of LL.B.

IN JURISPRUDENCE.

October. 1902.

Bannatyne, Douglas Alexander, B.A.
Berry, William Boyd, M.A.
King, Maurice John, M.A.
Osborne, George Edward Bell, M.A.
Scrymgeour, James, M.A.

April, 1903.

Austin, James, M.A.
Bell, Robert William, M.A.
Black, Archibald Campbell, M.A.
Buchan, James Walter, M.A.
Cameron, William Francis, M.A.
Lowe, Theodore David, M.A.
Mitchell, Edward Rosslyn, M.A.
Nicol, Roderick Macdonald, M.A.

IN PUBLIC INTERNATIONAL LAW.

October, 1902.

Bannatyne, Douglas Alexander, B.A.
Berry, William Boyd, M.A.
M'Donald, Alexander, M.A.

April, 1903.

Black, Archibald Campbell, M.A.
Cameron, William Ernest, M.A.
Lowe, Theodore David, M.A.
Mackay, Alexander Borthwick, M.A.
Mitchell, Edward Rosslyn, M.A.
Mungo, David Brown, M.A.
Robertson, Thomas Graham, M.A.
Scott, Robert, M.A.

IN CIVIL LAW.

October, 1902.

Bell, Robert William, M.A.
Nicol, Roderick Macdonald, M.A.
Spens, Walter Thomas Patrick, M.A.

April, 1903.

Crawford, Archibald, M.A.
Ferrier, Douglas, M.A.
Mungo, David Brown, M.A.
Murray, Anthony Stoddard, M.A.

IN LAW OF SCOTLAND.

October, 1902.

Bannatyne, Douglas Alexander, B.A.
Barnes, Joseph, M.A.
Black, Archibald Campbell, M.A.
Cameron, William Francis, M.A.
Mitchell, Edward Rosslyn, M.A.
Scrymgeour, James, M.A.
Spens, Walter Thomas Patrick, M.A.

April, 1903.

Brechin, John Chalmers, M.A.
Buchan, James Walter, M.A.
Cameron, William Ernest, M.A.
Ferrier, Douglas, M.A.
Macqueen, Robert Haldane, B.A.
Mair, John, M.A.
Murray, Anthony Stoddard, M.A.
Robertson, Thomas Graham, M.A.
Roy, William, M.A.
Spreull, George John, M.A.

IN CONSTITUTIONAL LAW AND HISTORY.

October, 1902.

Barnes, Joseph, M.A.
Osborne, George Edward Bell, M.A.

April, 1903.

Crawford, Archibald, M.A.
Scott, Robert, M.A.
Wilkie, George, M.A.

IN CONVEYANCING.

October, 1902.

Black, Archibald Campbell, M.A.
Cameron, William Francis, M.A.
Hutson, William, M.A.
M'Donald, Alexander, M.A.
Osborne, George Edward Bell, M.A.

April, 1903.

Austin, James, M.A.
Bannatyne, Douglas Alexander, B.A.
Bell, Robert William, M.A.
Crawford, Hamilton, M.A.
Dow, Samuel Hugh, M.A.
Gillan, William Woodburn, M.A.
Johnston, John Dalrymple, M.A.
Mackay, Alexander Borthwick, M.A.
Nicol, Roderick Macdonald, M.A.

IN POLITICAL ECONOMY.

October, 1902—Nicol, Roderick Macdonald, M.A.
April, 1903—Mungo, David Brown, M.A.

IN MERCANTILE LAW.

April, 1903.

Roy, William, M.A.
Spreull, George John, M.A.

IN INTERNATIONAL PRIVATE LAW.

October, 1902.

Bell, Robert William, M.A.
King, Maurice John, M.A.
Mitchell, Edward Rosslyn, M.A.
Nicol, Roderick Macdonald, M.A.
Scrymgeour, James, M.A.

April, 1903.

Black, Archibald Campbell, M.A.
Cameron, William Francis, M.A.
Crawford, Hamilton, M.A.
Dow, Samuel Hugh, M.A.
Macqueen, Robert Haldane, B.A.
Scott, Robert, M.A.
Wilkie, George, M.A.

IN FORENSIC MEDICINE.

October, 1902.

Black, Archibald Campbell, M.A.
Cameron, William Francis, M.A.
Hutson, William, M.A.

April, 1903.

Bannatyne, Douglas Alexander, B.A.
Brechin, John Chalmers, M.A.
Mackay, Alexander Borthwick, M.A.
Mair, John, M.A.
Murray, Anthony Stoddard, M.A.
Roy, William, M.A.
Spreull, George John, M.A.
Wilkie, George, M.A.

II. For Degree of B.L.

IN LOGIC.

October, 1902—Cochran, Campbell.

IN LATIN.

October, 1902.

Cochran, Campbell.
Foulis, William Adamson.

April, 1903.

M'Cracken, Maurice James.
Pirie, John.
Thompson, William.

IN CIVIL LAW.

October, 1902.

Bell, Robert William, M.A.
Kerr, James.
Smith, William France.

April, 1903.

Cochran, Campbell.
Grieve, Weir.
Grieve, William Crawford.

IN LAW OF SCOTLAND.

October, 1902—Chalk, George Brisbane.

April, 1903.

Cochran, Campbell.
Foulis, James Bell.
Foulis, William Adamson.
Ralston, Cosmo Augustus.

IN CONSTITUTIONAL LAW AND HISTORY.

October, 1902.

Grieve, Weir.
Grieve, William Crawford.

April, 1903—Hutton, Frederick Robert Hughes.

IN CONVEYANCING.

October, 1902.

Love, John Alexander Anderson.
M'Cutcheon, James White, M.A

April, 1903.

Bell, Robert William, M.A.
Chalmers, John Stuart.
Gray, John, M.A.
Menzies, Henry Lindsay.

IN MERCANTILE LAW.

October, 1902—Chalk, George Brisbane.

IN FORENSIC MEDICINE.

October, 1902—Mackintosh, James Semple.

III. FOR DEGREES OF M.B., CH.B.

FIRST PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (B., Botany; Z., Zoology; P., Physics; C., Chemistry):

October, 1902.

Adamson, Wallace Wright (B., P.).
Aitchison, Archibald (B., P.).
Allan, William (B., Z.).
Anderson, Thomas M'Call (B., P.).
Andrew, Jeannie Montgomery (B., Z.).
Atkinson, John (B., P.).
Bertram, Herbert (B., P.).
Bremner, Donald Price (B., C.).
Brown, James Nimmo, M.A. (B., P.).
Buchan, Martha Maclean (B., Z.).
Cameron, John (B.).
Cammock, William Rome (Z., C.).
Campbell, George (B., Z., P., C.).
Campbell, William Archibald (B., P.).
Carmichael, John Paterson (P.).
Cassidy, Matthew Ignatius Thornton (B., P.).
Christie, Henry Howard (B., P.).
Cluckie, Alexander Beck (B.).
Coutts, James (B., Z., P., C.).
Craig, Thomas Lawson (B., P.).
Davie, Neilson (B., P.).
Dick, Alexander (Z., P.).
Dick, James Cowie (Z., P.).
Doctor, John Alexander (B.).
Donald, Robert (P., C.).
Drever, James Richan, M.A. (B., C.).
Driscoll, Richard John (P.).
Dunbar, James (Z.).
Eadie, Alexander Wylie (B., P.).
Eaton, Ernest Milne (B., P.).
Fairlie, William Miller (B., P.).
Fleming, Thomas Loudon (P., C.).
Fletcher, George (B., P.).
Fraser, George Muir (B., P.).
Georgeson, James Wilfred, (C.).
Gilfillan, William (B., Z., P.).
Govan, Robert (B., P.).
Grant, John Vincent (P.).
Grant, Thomas Purdie (B., P.).
Gray, Arnold Harris (C.).
Gray, James Dow (B., P.).
Hamilton, David (B., P.).
Hardie, William Towers (B., C.).
Hart, James Duncan (B., P.).
Kidd, James Dunlop (C.).
Kirkland, James Towers (C.).
Ligertwood, George (P., C.).
Macaulay, Angus (P.).
M'Cartney, John (C.).
M'Donald, James (B.).
M'Farlane, James (B., P.).
M'Inroy, Robert (Z., P., C.).
M'Kay, John Henry (B., P.).
M'Kellar, William Anderson (B., P.),
Mackenzie, Murdo Duncan (B., Z., P., C.).
Mackenzie, Thomas Cooper (B., P.).
M'Neill, Alister Argyle Campbell (B., P.).
Macquarie, Charles James Colquhoun (B., P.).
Marshall, Isa Carswell (B., P.).
Matheson, William (B., Z., P., C.).
May, Robert (B.).
Middleton, John Clark (B., P.).
Miller, Allan Frederick (B., Z., P.).
Miller, John Wilson (B.).
Miller, William (C.).
Mitchell, Peter, M.A. (C.).
Mitchell, Robert Wright (C.).
Moir, Hugh Walker (Z.).
Morton, Hugh (B.).
O'Brien, Patrick (B., P.).
O'Hare, Patrick Joseph (C.).
Oswald, John (B.).
Paul, James Hogg (B., P.).
Picken, Agnes (B., Z.).
Robertson, Frederick Gordon (B., P.).
Robertson, James Henry Anderson (C.).
Rodger, Murdoch Mann (Z., P.).
Rutherfurd, William James (B.).
Scott, William Wilkie (B., Z.).
Sharp, John (B.).
Simpson, Robert Wilfrid (C.).

Sinclair, Alexander Hunter (B., C.).
Smellie, William (B., Z., P., C.).
Smith, James Anstruther (B.).
Steedman, John (B., P.).
Stevenson, John (B., P.).
Stevenson, William (Z.).
Stewart, Jeanie Hinshaw (B., Z.).
Stewart, John (B., P.).
Stewart, John Torrance Weir (P.).
Stewart, Matthew John (B., P.).
Struthers, John Anderson (B., P.).
Tate, David Laurence Alexander (P., C.).
Taylor, Robert Scott (B., P.).
Todd, Robert (Z.).
Turnbull, Martin (Z., C.).
Walker, John Morris (B., P.).
Watson, Hugh (B., Z.).
Weir, John (B., P.).
Welsh, James Kennedy (B., P.).
Williams, David John (P., C.).
Wilson, George Haswell (B., P.).
Wilson, Samuel, M.A. (B., P.).
Wilson, William Mitchell Turner (Z.).
Youdelevitz, Moses (B., Z., P., C.).

April, 1903.

Aitken, John Andrew (C.).
Anderson, James Montgomery (P.).
Anderson, John, M.A. (B., Z.).
Anderson, Thomas M'Call (Z.).
Arnott, Andrew Hamilton (C.).
Arthur, David (B., Z.).
Atkinson, John (Z.).
Barnes, Edgar (Z.).
Bertram, Herbert (Z., C.).
Bisset, John Henry (B., Z., P., C.).
Brown, James Nimmo, M.A. (Z., C.).
Buchanan, Murdo (P.).
Cairncross, James (B., P.).
Cairns, James (Z., C.).
Campbell, Thomas Hay (Z., C.).
Cassidy, Matthew Ignatius Thornton (Z., C.).
Clark, John Sawers (B.).
Cluckie, Alexander Beck (P.).
Couper, Alexander Johnston (B., P.).
Craig, James Robert (Z.).
Crichlow, Charles Adolphus (Z., C.).
Dick, Alexander (B.).
Doctor, John Alexander (Z., P.).
Donald, Robert (B.).
Drever, James Richan, M.A. (Z.).
Dunbar, James (P.).
Duncan, Donald (Z., C.).
Dunsmuir, Allan (B., P.).
Dunstone, Leonard John (Z., C.).
Elliott, William Marley (Z., C.).
Fairley, Archibald (Z.).
Galbraith, Samuel Nichol (Z., C.).
Gale, Berkeley (Z.).
Gourlay, Alexander Thomas Arthur (Z.).
Granger, Henry Maxwell (P.).
Grant, John Vincent (Z.).
Grant, Percy Frederick (P.).
Grant, Thomas Purdie (Z., C.).
Gunn, William Cooper (Z.).
Hammond, John (C.).
Harkin, Thomas (B., P.).
Henderson, John Mitchell (Z., C.).
Hutton, Andrew James (Z., C.).
Kelly, Percy James (P., C.).
Ligertwood, George (B., Z.).
M'Ardle, Daniel Conway (Z.).
Macaulay, Ernest Bowman (P.).
M'Call, Alexander (B., P.).
M'Cririck, Thomas, M.A. (B., Z.).
M'Crorie, Annie (P., C.).
Macdonald, Alexander Tulloh Inglis (Z., C.).
M'Donald, James (Z., P.).
M'Gilvray, John Robert (B., P.).
M'Inroy, Robert (B.).
Mackay, Joseph Bogue (Z.).
M'Kellar, William Anderson (C.).
Mackenzie, Thomas Cooper (C.).
Mackenzie, William Ferguson (B., P.).
M'Lachlan, Allison David (B., P.).
M'Neill, Arthur Norman Roy (Z., C.).
MacVea, Janet Annie (C.).
Manson, David (Z., C.).
Marshall, Isa Carswell (Z., C.).
Marshall, Robert, (P., C.).
Martin, James Hogg (Z., C.).
Mathieson, David Rogerson (C.).
Matthews, Horatio (B., P.).
Middleton, John Clark (Z., C.).
Miller, John Wilson (Z., P.).
Miller, Robert Stewart (B., C.).
Mitchell, James Robertson (B., P.).
Moir, Hugh Walker (P., C.).
Morton, Hugh (Z., P.).
Muir, Robert Charles (Z., C.).
Murison, Arthur Alexander (B).
O'Brien, Patrick (Z., C.).
Oswald, John (C.).
Papiermeister, Isaac (Z., C.).
Renton, Donald (B., Z.).

Robertson, Jane Isabel (P., C.).
Roger, Murdoch Mann (C.).
Rutherfurd, William James (P.).
Scott, Alexander (Z., C.).
Selby, Robert Ephraim (Z.).
Sharp, Alfred Cecil (B., Z., P., C.).
Sharp, John (P.).
Sinclair, Alexander Hunter (P.).
Steedman, John (Z.).
Stenhouse, James Alexander (Z., P.).
Stevenson, Campbell Kay (Z., C.).
Stevenson, William (B.).
Stewart, Archibald (C.).
Stewart, John Torrance Weir (C.).
Stewart, Matthew John (Z., C.).
Struthers, John Anderson (Z.).
Taylor, John Martin (Z., C.).
Thomson, Hugh Johnson (Z., C.).
Todd, Robert (C.).
Turnbull, Martin (B.).
Watson, Hugh (P., C.).
Watson, Wm. Barrie (B., Z., P., C.).
Watt, Thos. Chas. Dalrymple (B., P.).
Weir, John (Z., C.).
Welsh, James Kennedy (C.).
White, Hugh (B., P.).
Williams, David John (B.).
Wilson, Frank Ritchie (Z., C.).
Wilson, Hugh Mundle (Z.).
Wilson, Wm. Mitchell Turner (B., P.).
Yardumian, Garabed Yeghia (Z., C.).
Young, Matthew (Z., C.).

SECOND PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (A., Anatomy; P., Physiology; M., Materia Medica and Therapeutics).

October, 1902.

Aitken, Andrew Blair (A., P., M.).
Alexander, Bethia Shanks (P., M.).
Allan, William Smith (P.).
Anderson, Andrew Woodroffe (P., M.).
Anderson, Henry Graeme (M.).
Bain, John (P., M.).
Baird, Annie Agnes, M.A. (P.).
Barrowman, Allan Robertson (M.).
Bell, Robert Daniels, M.A. (M.).
Bogle, George Thomson (P.).
Brodie, Thomas (A.).
Brown, Charles (A.).
Campbell, Thomas Murdoch, M.A. (P., M.).
Carslaw, Robt. Buchanan, M.A. (M.).
Copestake, Thomas Goodall (M.).
Drew, Charles Milligan, M.A. (P.).
Fulton, Hugh Harvey (M.).
Gallagher, Mary Theresa (M.).
Gillatt, William Harold (M.).
Gilmour, William Macmillan (A.).
Graham, David Livingstone (M.).
Graham, John (M.).
Gray, George Munn (M.).
Greig, Louis Leisler (M.).
Harris, Saul Hyman (P.).
Hay, Alex. Robertson Forrest (M.).
Hay, James Waugh (P.).
Henderson, John Cochrane (M.).
Howell, Ralph Vincent (P.).
Hunter, Alexander (P., M.).
Hutchison, Arch. Yuill (A., P., M.).
Kerr, James Rutherford (A., P.).
Kerr, John (A.).
Logie, William Jamieson (M.).
Lowe, Peter, M.A., B.Sc. (P., M.).
Macaulay, Thomas Symington (M.).
M‘Callum, John Duncan, M.A. (A., P., M.).
M‘Cormick, Donald Carmichael (M.).
M‘Dougall, Neil (A., P., M.).
M‘Ewan, James Boston (M.).
M‘Ewan, Tom Duncan (M.).
Macfadyen, Duncan (M.).
M‘Farlane, John (M.).
Macfarlane, Robert (M.).
Macfie, James Denniston (P., M.).
Macgregor, Alexander Stuart Murray (A., P., M.).
M‘Houl, James (M.).
M‘Ilroy, Jane Hamilton, M.A., B.Sc. (M.).
Mackay, Charles Gordon (A., P., M.).
M‘Leish, David James, M.A. (M.).
M‘Murrich, Matthew Thompson Drummond (P., M.).
M‘Pherson, Andrew Brown (A.).
Macpherson, Richard Cameron (P., M.).
Mann, Florence (M.).
Marshall, James (P., M.).
Martin, Wm. Blair Morton (A., P.).
Miller, Margaret Walker (P.).
Moffatt, John (P., M.).
Muir, John (M.).
Munro, Macdonald (M.).
Murdoch, John (A., P., M.).

Murray, Frank Anderson (A., P.).
Nielson, George Clement (M.).
Orr, Thomas (A.).
Patrick, Howard Henderson (M.).
Pearson, John (A., P., M.).
Pickup, John Clegg (M.).
Pollock, Andrew Maclean (M.).
Porter, James (M.).
Rae, William Murdoch (P.).
Reid, Harriett Rowland Louise (P.).
Richmond, James Watson (P., M.).
Robertson, Berkeley Hope, M.A. (M.).
Robertson, Robert Thin Craig (A.).
Ross, John Macdonald (A., P.).
Shaw, Jane Reid (M.).
Sieger, William Hermann (P., M.).
Slater, Robert Alexander (P., M.).
Smellie, Lily (M.).
Smith, George Goldie. B.Sc. (M.).
Smith, Morrison Wood (P., M.).
Taylor, William Robb (P.).
Templeton, William (M.).
Thomson, James White (M.).
Turner, William Young, M.A. (A., P., M.).
Watt, Thomas Macknight (M.).
Wilson, David Watson (A., P., M.).
Wilson, George (A.).
Yates, Annie May (M.).

April, 1903.

Adam, Scott Campbell (M.).
Alexander, Bethia Shanks (A.).
Allan, George Allison (A., P.).
Allan, William Smith (A., M.).
Allison, Andrew (A., P., M.).
Anderson, Andrew Woodroffe (A.).
Baird, James Henderson, B.A. (A., P.)
Barr, Hugh (A., P.).
Baxter, Andrew (A.).
Beaton, Geo. Duncan Morrison (M.).
Burns, Charles (M.).
Campbell, Thos. Murdoch, M.A. (A.).
Chislett, Charles Game Angus (A.).
Clark, Jeannie Thomson (A., P.).
Copestake, Thomas Goodall (P.).
Cunningham, Weir Burns (M.).
Dale, Robert Wilson, M.A. (A., P., M.).
Dewar, Robt. Scott, M.A. (A., P., M.).
Douglas, Allan Campbell (A., P.).
Duffy, Walter, M.A. (A., P., M.).
Dunn, John Shaw, M.A. (A., P.).
Dyke, Eric John (A., P.).
Dyke, Hamilton William (A., P.).
Fairley, James (A., P., M.).
Fairlie, Harry Prescott (A., P., M.).
Ferguson, Alex. Burns (A., P., M.).
Fitzgerald, Edward John (M.).
Gallagher, Mary Theresa (P.).
Gilchrist, William (P., M.).
Glaister, Joseph (M.).
Graham, Alexander, B.Sc. (A., P.).
Grier, William (A., P.).
Hauxwell, Frank (A.).
Hay, James Waugh (A., M.).
Hill, Robert M'Cowan (P., M.).
Howell. Ralph Vincent (A., M.).
Hunter, David Guthrie, M.A. (A., P.).
Innes, Arthur (M.).
Jack, William Boyd (A., P.).
Kerr, James Rutherford (M.).
Kirkwood, George Notman (M.).
Kirkwood, William Love (A., P.).
Logan, George Hugh (P., M.).
M'Cabe, John Bertram (A.).
M'Cosh, Thomas (A., P.).
Macdonald, Walter George, M.A. (A., P., M.).
Macewen, Hugh Allan (A., P.).
Macguire, Peter (A., P., M.).
Macintyre, John (P., M.).
Macleod, Roderick (A., P.).
Macleod, William (P.).
M'Millan, John (A., P., M.).
M'Murrich, Matthew Thompson Drummond (A.).
Macpherson, Richard Cameron (A.).
M'Vail, Elizabeth Maud (A., P., M.).
Marshall, James (A.).
Martin, William Blair Morton (M.).
May, Robert (P.).
Millar, Margaret Walker (A.).
Milligan, Henry Joseph (A., P., M.).
Mitchell, David Robertson (A., P., M.)
Moore, William Struthers (A., P., M.).
Muir, Gavin Denholme (A., M.).
Murray, Frank Anderson (M.).
O'Hare, Patrick Joseph (P., M.).
Ranken, Henry Sherwood (A., P., M.).
Rankin, Cunison Deans (A., P., M.).
Rankin, Jessie Deans, M.A. (A., P., M.).
Rankin, Thomas Thomson (A., P.).
Renton, James Mill (A., P., M.).
Robertson, Arthur (A., P., M.).
Rolland, William (A., P.).
Ross, John Macdonald (M.).
Russell, Alexander Cappie (A., P.).
Russell, John Cooper. M.A. (A., P.).

Samson, John (A.).
Sieger, Edward Louis Augustin (A., P., M.).
Sieger, William Hermann (A.).
Simpson, Robert Wilfrid (A., P., M.).
Somerville, James Alexander (A.).
Spence, Mary (A., P., M.).
Stewart, Daniel (A., P.).
Strain, Thomas (A., P.).
Stuart, William Alexander (A., P.).
Taylor, John (A., P., M.).
Taylor, William Robb (M.).
Thom, Thomas (A., P.).
Walker, William Lind, M.A. (A., P.).
Wallace, George (M.).
Watson, Alexander Macmillan (P.).
West, Archibald Crombie (M.).
Wyper, James (A.).
Yates, Annie May (A.).
Young, George (A., P.).

THIRD PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (P., Pathology ; M., Medical Jurisprudence and Public Health).

October, 1902.

Arthur, John William (P.).
Auld, Jeanie (P., M.).
Ballantyne, Thomas (P.).
Bell, Andrew Farm (P.).
Bennett, Thomas, M.A. (P.).
Bolton, William Thomas (P., M.).
Bradford, Robert George (P., M.).
Brown, John (P., M.).
Browning, Carl Hamilton (P., M.).
Bruce, Robert (P.).
Cameron, Agnes Wallace (P., M.).
Carmichael, Daniel Lyall (P.).
Clark, Alexander Erskine (P.).
Cross, John (P., M.).
Duncan, Jessie Galloway (P.).
Forsyth, James (P., M.).
Gilmour, Jane Reid Foulds (P., M.).
Glover, James (P., M.).
Hardy, Margaret (P., M.).
Harvey, William (M.).
Huey, John Monnette (P., M.).
Jamieson, Alexander (M.).
Kennedy, Alexander Dingwall (P.).
Lovett, Thomas (P., M.).
Macaulay, Donald (M.).
Macdonald, John Finlay (P., M.).
Maclean, Alice Wesley (P., M.).
M'Millan, Alexander Stewart (P., M.).
M'Whan, Andrew Alexander (P., M.).
Morton, John Baird (P., M.).
Napier, Alexander Harper (P., M.).
Pairman, James Carmichael, M.A. (P., M.).
Penman, David (P.).
Richmond, George (P., M.).
Robertson, Peter Hamilton (M.).
Scott, Martha Hunter (P., M.).
Shaw, Lawrence Drew (P., M.).
Stevenson, John Black (M.).
Stevenson, William David Henderson, M.A. (M.).
Thom, John Allan (P., M.).
Turnbull, John (M.).
Waddell, Janet Gardner (P., M.).
Walker, Joseph, M.A. (M.).
Wallace, Robert (P., M.).
Watson, Robert (M.).
Wells, Robert Tait, M.A. (M.).
Wildish, George Henry (P., M.).
Young, Hugh (P., M.).
Young, John (Glasgow) (P., M.).
Young, Watson (M.).

April, 1903.

Amy, Archibald Craig (P., M.).
Anderson, Henry Graeme (P.).
Anderson, James Richard Sunner (M.).
Arthur, John William (M.).
Baird, Annie Agnes, M.A. (P., M.).
Black, Annie M'Caig (P., M.).
Blackley, David (P., M.).
Brechin, Forrest (P., M.).
Brown, Charles (P., M.).
Caldwell, George Yuille (P., M.).
Campbell, Roberta (P.).
Carrick, Peter, M.A. (P., M.).
Carslaw, Robt. Buchanan, M.A. (P.).
Cartwright, Robert Peploe (P.).
Chapman, Ethel Lily (P.).
Cowie, James Alexander, B.A., B.Sc. (P., M.).
Davidson, David William (M.).
Dishington, Thomas Thornton Macklin (P.).
Donaldson, Hugh M'Millan (M.).
Drew, Chas. Milligan, M.A. (P., M.).
Fulton, Hugh Harvey (P.).
Garry, George (P.).
Gemmell, James (M.).

Gillatt, William Harold (P., M.).
Gilmour, William Macmillan (P., M.).
Graham, David Livingstone (P., M.).
Graham, John (P., M.).
Gray, George Munn (P.).
Greig, Louis Leisler (P., M.).
Henderson, John Cochrane (P., M.).
Jamieson, Alexander (P.).
Kennedy, Robert Dallas (P., M.).
Kerr, John (M.).
Kirk, William Henry (P., M.).
Leiper, Robert Thomson (P., M.).
Logie, William Jamieson (P., M.).
Macaulay, Thos. Symington (P., M.).
M‘Callum, John Duncan, M.A. (P., M.).
M‘Cormick, Donald Carmichael (P.).
M‘Dougall, Neil (M.).
M‘Ewan, James Boston (P., M.).
M‘Ewan, Tom Duncan (P.).
Macfadyen, Duncan (P.).
M‘Farlane, John (P.).
Macfarlane, Robert Maxwell (P., M.).
M‘Guire, Robert Clark (P., M.).
M‘Houl, James (P., M.).
M‘Ilroy, Jane Hamilton, M.A., B.Sc. (P., M.).
M‘Intyre, Milne (P.).
Mackinnon, Ronald (P.).
M‘Lauchlan, Jane Stark (P., M.).
M‘Leish, David James, M.A., B.Sc. (P., M.).
Macleod, Norman Alexander (M.).
M‘Pherson, Andrew Brown (P., M.).
Meek, Andrew (P., M.).
Millar, Peter (P., M.).
Muir, John (P., M.).
Munro, Macdonald (P., M.).
Nielson, George Clement (P., M.).
Orr, Thomas (P.).
Park, Charlotte Reid (P.).
Patrick, Howard Henderson (P.).
Pickup, John Clegg (P., M.).
Pollock, Alexander MacMillan (M.).
Pollock, Andrew Maclean (P.).
Porter, James (P.).
Rae, William Murdoch (M.).
Reid, Donald Ronald (P., M.).
Richmond, Daniel Stevenson (M.).
Robertson, Berkeley Hope, M.A., B.Sc. (P., M.).
Robertson, Robt. Thin Craig (P., M.).
Shaw, Jane Reid (M.).
Smellie, Lily (P., M.).
Smith, George Goldie, B.Sc. (P.).
Stewart, John (P., M.).
Stewart, Norman Burgess (P., M.).
Stewart, William Craig (P., M.).
Talbert, Elizabeth Taylor (P., M.).
Taylor, Murray Ross (P., M.).
Templeton, William (P., M.).
Thomson, James White (P.).
Turner, Wm. Young, M.A. (P., M.).
Warwick, Hugh Fleming (P.)
Watson, Robert (P.).
West, Archibald Crombie (P., M.).
Wilson, Archibald Simpson (P., M.).
Wilson, David Watson (P.).
Wilson, George (M.).
Wilson, Robert M‘Nair (P., M.).
Young, Watson (P.).

FOURTH PROFSSSIONAL EXAMINATION.

The following passed the whole examination (Surgery and Clinical Surgery; Practice of Medicine and Clinical Medicine; Midwifery):

July, 1902.

Anderson, William Kirkpatrick.
Armitage, William.
Arthur, Robert James.
Banks, Alexander Grey.
Bringan, James Campbell.
Bryson, Margaret Elizabeth.
Campbell, Angus.
Campbell, Robert Harold.
Dale, John Shedden.
Dick, Alexander.
Douglas, Donald, M.A.
Dow, Andrew Robertson.
Ferguson, John, M.A.
Gairdner, Eric Dalrymple.
George, William White.
Gordon, John Millar.
Guthrie, John.
Hagerty, John Andrew.
Hodge, Ronald Dingwall.
Hunter, John Brown Dalzell.
Hutchison, Neil M‘Coll.
Jackson, Ernest David.
Jeffrey, George Rutherford.
Kay, William Fletcher.
Kennedy, John.
Kerr, Andrew Miller.
Laurie, Robert.
Leitch, Archibald.
Lewis, Stanley Everard.
Lusk, Joseph Paterson.

Macintyre, Alexander.
M'Kenzie, Ivy., M.A., B.Sc.
M'Kenzie, John Chancellor.
Maclean, Alexander.
M'Millan, Alexander M'Gaw.
Macphail, Dugald Henry.
Makins, Richard.
Manson, Robert Harry.
Miller, Janet Thomson.
Milne, William Alexander.
Mitchell, Alexander John.
Morison, John.
Muir, John, B.Sc.
Nicolson, James Stuart.
Prentice, James Nimmo.
Reid, John Mark.
Renton, John Walker.
Richmond, Thomas.
Riddell, David.
Rodger, William George.
Rogers, Norman Cumming.
Ross, James Crawford.
Russell, James.
Smith, James.
Smith, John Williamson.
Smith, Robert Cassels.
Spence, David.
Stevenson, John.
Stewart, John Barbour.
Townley, Joseph Swinburn.
Turner, William Wagner.
Wallace, Thomas Irby.
Watt, Alexander Brown.
White, Joseph, M.A., B.Sc.
Wilson, David Ashley.

October, 1902—Clark, George.

The following passed in the subjects indicated (S., Surgery and Clinical Surgery ; P., Practice of Medicine and Clinical Medicine ; M., Midwifery).

July, 1902.

Baird, Helen Stephen, B.A. (P., M.).
Carruthers, Alexander Adam (S., M.).
Christie, John Cairns, M.A. (S., M.).
Crawford, Hugh William (S., M.).
Dick, Mitchell Innes (S., M.).
Drummond, James (P.).
Ferguson, George (S., P.).
MacFarlane, Alex. Armstrong (S., M.).
Macintyre, David Duncan Fraser (S., M.).
Mackellar, John Matheson (S., M.).
Maclean, John (P., M.).
Martyn, Harry Somerville, M.A. (S., M.).
Menzies, Robert (P., M.).
Mitchell, Allan Dixon (P.)
Robertson, Wm., Blackwood (S., M.).
Ross, Andrew Taylor (S.).
Sinnette, Malcolm Bernard Gathorne (S., P.).
Smith, Elizabeth Helen (P., M.).

October, 1902.

Christie, John Cairns, M.A. (P.).
Crawford, Hugh William (P.).
Dick, Mitchell Innes (P.).
MacFarlane, Alex. Armstrong (P.).
Macintyre, David Duncan Fraser (P.).
Mackellar, John Matheson (P.).
Martyn, Harry Somerville, M.A. (P.).
Menzies, Robert (S.).
Robertson, William, Blackwood (P.).
Sinnette, Malcolm Bernard Gathorne (M.).

FIRST, SECOND, THIRD, AND FOURTH PROFESSIONAL EXAMINATIONS.

The following passed with distinction in the subjects indicated :

FIRST EXAMINATION.

October, 1902.

In Botany and Physics—John Stevenson, Matthew John Stewart. In Zoology and Physics—William Gilfillan. In Physics and Chemistry—Robert Donald. In Botany—Patrick O'Brien, John Steedman, Samuel Wilson, M.A. In Zoology—William Rome Cammock. In Physics—William Archibald Campbell, Matthew Ignatius Thornton Cassidy, Henry Howard Christie, Neilson Davie, Ernest Milne Eaton, George Fletcher, John Clark Middleton, Frederick Gordon Robertson, Robert Scott Taylor, John

Morris Walker, John Weir, James Kennedy Welsh, George Haswell Wilson. In Chemistry—William Miller, Peter Mitchell, M.A.

April, 1903.

In Botany and Zoology—Thomas M'Cririck, M.A. In Botany and Physics—Horatio Matthews. In Zoology—David Arthur, Edgar Barnes, Herbert Bertram, James Cairns, Matthew Ignatius Thornton Cassidy, Charles Adolphus Crichlow, Alexander Tulloh Inglis Macdonald, John Clark Middleton, John Steedman, Matthew John Stewart, John Martin Taylor, Hugh Johnstone Thomson, Frank Ritchie Wilson, Matthew Young. In Physics—James Cairncross, Robert Marshall, Alfred Cecil Sharp, John Sharp.

SECOND EXAMINATION.

October, 1902.

In Anatomy, Physiology, and Materia Medica and Therapeutics—Andrew Blair Aitken. In Anatomy and Physiology—William Blair Morton Martin. In Anatomy—John Duncan M'Callum, M.A. In Physiology—Alexander Stuart Murray Macgregor. In Materia Medica and Therapeutics—Allan Robertson Barrowman, Robert Daniels Bell, M.A. ; Robert Buchanan Carslaw, M.A. ; George Munn Gray.

April, 1903.

In Anatomy and Physiology—John Shaw Dunn, M.A. In Anatomy—Robert Wilson Dale, M.A. ; Alexander Cappie Russell, Thomas Thom. In Physiology—George Allison Allan, William Boyd Jack, Walter George Macdonald, M.A. ; Henry Sherwood Ranken. In Materia Medica and Therapeutics—Arthur Innes, William Blair Morton Martin.

THIRD EXAMINATION.

October, 1902.

In Pathology and Medical Jurisprudence and Public Health—James Glover. In Pathology—Carl Hamilton Browning, John Baird Morton, Martha Hunter Scott.

April, 1903.

In Pathology—Robert Buchanan Carslaw, M.A. ; Hugh Harvey Fulton, George Munn Gray, John M'Farlane, Donald Ronald Reid.

FOURTH EXAMINATION.

July, 1902.

In (*a*) Surgery and Clinical Surgery, (*b*) Practice of Medicine and Clinical Medicine, (*c*) Midwifery—Andrew Miller Kerr, William George Rodger. In (*a*) Surgery and Clinical Surgery, (*b*) Practice of Medicine and Clinical Medicine—Alexander Grey Banks, Ivy M'Kenzie, M.A., B.Sc. ; David Riddell, James Crawford Ross, Joseph White, M.A., B.Sc. In (*a*) Surgery and Clinical Surgery, (*b*) Midwifery—Thomas Richmond. In Surgery and Clinical Surgery—James Campbell Bringan, George Rutherford Jeffrey, William Fletcher Kay, Robert Laurie, John Morison, John Muir, B.Sc. ; James Stuart Nicolson, John Mark Reid. In Practice of Medicine and Clinical Medicine—George Ferguson, Eric Dalrymple Gairdner, Ronald Dingwall Hodge, Ernest David Jackson, Richard Makins, Janet Thomson Miller, John Walker Renton, James Russell, William Wagner Turner, Thomas Irby Wallace. In Midwifery—Angus Campbell, Alexander M'Gaw M'Millan, Robert Menzies.

IV.—FOR DEGREE OF B.Sc.

OLD REGULATIONS.

April, 1903.

Cumming, Robert, B.D. (Physiology).
Muirhead, William, M.A. (Chemistry).
Ramage, Granville Hepburn (Geology).

REGULATIONS OF 1892.

A. IN PURE SCIENCE.

FIRST SCIENCE EXAMINATION.

October, 1902.

Borland, William Dunlop (Chemistry).
Deans, William Smellie (Chemistry).
Donald, Gavin M'Culloch (Chemistry).
Fukuzawa, Sampachi (Chemistry).
Henderson, Andrew, M.A. (Chemistry).
Hunter, James (Chemistry).
Mackenzie, Thomas Dingwall (Chemistry).
M'Pherson, William Pettigrew (Natural Philosophy).
Wiseman, William Richard, M.A. (Chemistry).

April, 1903.

Arthur, David (Chemistry).
Baird, Andrew Cumming (Natural Philosophy, Chemistry).
Borland, William Dunlop (Natural Philosophy).
Cantor, Aaron (Natural Philosophy).
Dunlop, James Kirkwood (Mathematics).
Finlay, Archibald Barbour, M.A. (Chemistry).
Forrest, Samuel Norris (Chemistry).
Fotheringham, John (Mathematics).
Hudson, Rose Isobel (Chemistry).
Lindsay, Dorothy Elizabeth (Mathematics, Chemistry).
Macintyre, Margaret (Chemistry).
Marshall, Barbara Carswell (Chemistry).
Middleton, John Clark (Chemistry).
Moyes, James, M.A. (Natural Philosophy).
Picken, Ralph Montgomery Fullarton (Mathematics, Natural Philosophy, Chemistry).
Robertson, Hugo Given (Zoology, Botany).
Russell, Leonard James (Mathematics, Natural Philosophy).
Smith, Hugh (Mathematics).
Stephen, Campbell (Mathematics, Natural Philosophy).
Turnbull, Arthur (Zoology).

FINAL SCIENCE EXAMINATION.

October, 1902.

Brunton, David Stewart, M.A. (Chemistry).
Gow, Louis Niel, M.A. (Mathematics).
Graham, Alexander, B.Sc. Agric. (Zoology).
Greig, John Isdale, M.A. (Botany).
[1]Houston, Robert Alexander (Mathematics, Natural Philosophy).
Hunter, David Guthrie, M.A. (Geology and Mineralogy).
Irvine, Robert, M.A. (Astronomy).

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[1] With Special Distinction in Mathematics and Natural Philosophy.

Lamont, Alexander Buchanan, M.A. (Mathematics).
La Torre, Carlo (Astronomy).
Mackenzie, Alexander Ramsay (Chemistry).
M'Leish, David James, M.A. (Zoology).
Robertson, Berkeley Hope, M.A. (Zoology).
Sinclair, James (Geology and Mineralogy).
Stewart, John Henderson (Mathematics, Natural Philosophy).

April, 1903.

Barbour, Thomas (Mathematics, Natural Philosophy).
Brunton, David Stewart, M.A. (Geology).
Gemmell, John Justice, M.A. (Geology).
Graham, John (Chemistry).
[1]Houstoun, Robert Alexander, M.A. (Astronomy).
Hunter, David Guthrie, M.A. (Physiology).
Irvine, Robert, M.A. (Mathematics, Geology).
[2]Rankin, Jessie Deans, M.A. (Anatomy, Physiology).
Thompson, William Lindsay, M.A. (Geology).

B. In Engineering.

FIRST SCIENCE EXAMINATION.

October, 1902.

Adams, Bernard Inman Franklin (Chemistry).
Bayne, John Archibald Campbell (Higher Mathematics).
Beilby Hubert Noel (Higher Mathematics).
Coats, James Richardson (Chemical Laboratory).
Crawford, William Jackson (Higher Natural Philosophy).
[3]Gray, James Gordon (Higher Mathematics, Higher Natural Philosophy, Physical Laboratory).
Hartley, Sidney (Chemistry, Chemical Laboratory).
Hodge, Harry Fairlie (Ordinary Mathematics, Ordinary Natural Philosophy, Chemistry, Chemical Laboratory).
Howat, William Carrick (Higher Mathematics).
Kerr, Duncan John (Chemistry, Chemical Laboratory).
Kerr, James Reid (Ordinary Mathematics, Chemical Laboratory).
Kerr, John (Physical Laboratory).
Lawrance, Alexander (Ordinary Natural Philosophy).
MacConnell, John Alexander (Chemistry).
MacDougall, John Ernest (Higher Mathematics).
Maxwell, John Maxwell Scott (Ordinary Mathematics, Chemistry).
Norwell, Alexander (Ordinary Mathematics).
Reincke, Hans Augustus (Ordinary Mathematics).
Roberts, Cyril Humphrey (Ordinary Mathematics).
Satow, Kouji (Higher Natural Philosophy).
Smyth, Fryer Thomas Acheson (Higher Natural Philosophy).
Spartali, Michael (Chemistry).
Stewart, Frederick Robert (Higher Natural Philosophy).
[4]Summers, James (Higher Mathematics, Higher Natural Philsophy, Physical Laboratory, Chemistry).
Taylor, Bertram Fenwick (Ordinary Mathematics).
Yeaman, William George (Chemistry, Chemical Laboratory).

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[1] With Special Distinction in Astronomy.
[2] With Special Distinction in Physiology.
[3] With Special Distinction in (*a*) Mathematics, (*b*) Natural Philosophy, (*c*) Physical Laboratory.
[4] With Special Distinction in Physical Laboratory.

March, 1903—Gray, James Gordon (Chemistry).

April, 1903.

Adams, Bernard Inman Franklin (Higher Mathematics).
Barnwell, Frank Sowter (Higher Mathematics).
Birkett, Hugh de Paynesley (Higher Natural Philosophy).
Bostock, William Henry Dorman (Higher Natural Philosophy).
Coats, James Richardson (Higher Mathematics, Chemistry).
[1]Cousens, Henry James Morrison (Higher Natural Philosophy, Chemistry).
Craig, George Mather (Higher Mathematics, Ordinary Natural Philosophy).
Crichton, Robert (Higher Mathematics, Higher Natural Philosophy, Chemistry, Chemical Laboratory).
Cuthbertson, Robert (Chemistry).
Dickie, James Black (Higher Natural Philosophy).
Dunlop, John Christopher (Higher Mathematics, Ordinary Natural Philosophy, Chemistry).
Forrest, George Henry (Ordinary Mathematics).
Gardner, John Hyslop (Ordinary Mathematics).
[1]Haigh, Bernard Parker (Higher Natural Philosophy, Chemistry).
Hartley, Sidney (Higher Mathematics).
Henderson, John Alexander (Ordinary Natural Philosophy, Chemistry).
Hodge, Harry Fairlie (Higher Mathematics).
Hutcheon, Alexander Dalziel (Ordinary Mathematics, Ordinary Natural Philosophy, Physical Laboratory).
[2]Hutchison, Alexander (Higher Mathematics).
[2]Kerr, Duncan John (Higher Mathematics).
Kerr, John (Higher Mathematics, Chemistry).
Kirkwood, John (Chemistry).
Lawrance, Alexander (Higher Mathematics).
MacConnell, John Alexander (Higher Natural Philosophy).
M'Crindle, John Alexander (Higher Mathematics, Higher Natural Philosophy).
MacDougall, John Ernest (Higher Natural Philosophy).
[1]Maclean, Neil John (Higher Natural Philosophy).
M'Neil, Charles (Ordinary Mathematics, Ordinary Natural Philosophy, Physical Laboratory).
Martin, John (Higher Natural Philosophy).
Muirhead, Thomas (Higher Mathematics, Ordinary Natural Philosophy, Physical Laboratory, Chemistry).
Roberts, Cyril Humphrey (Chemistry).
Tainsh, John Alexander Gowans (Higher Natural Philosophy).
Thomson, John (Higher Mathematics, Higher Natural Philosophy, Physical Laboratory, Chemistry).
[2]Tinto, John Ferguson (Higher Mathematics, Ordinary Natural Philosophy).
Turner, Thomas Lindsay (Ordinary Mathematics, Physical Laboratory).
[1]Ure, Robert (Higher Natural Philosophy).
Whitehead, John (Higher Mathematics).
Younger, John (Higher Natural Philosophy).

FINAL SCIENCE EXAMINATION.

October, 1902.

Begg, James M'Gee (Geology and Mineralogy).
Birkett, Hugh de Paynesley (Engineering Laboratory—Electrical).
[3]Gray, James (Electricity—Pure and Applied).

[1] With Special Distinction in Natural Philosophy.
[2] With Special Distinction in Mathematics.
[3] With Special Distinction in Electricity, Pure and Applied.

Gray, William M'Gill (Naval Architecture and Drawing).
Harvey, William Barnett (Engineering and Drawing).
[1]Houston, William Campbell (Engineering and Drawing, Electricity—Pure and Applied).
Howat, William Carrick (Geology and Mineralogy).
Lobban, Charles Henry (Geology and Mineralogy).
MacDougall, John Ernest (Geology and Mineralogy).
Muir, John Findlay (Engineering and Drawing, Engineering Laboratory—Electrical).
Primrose, Clive Macfarlane (Geology and Mineralogy).
Robertson, William Frank (Engineering).
Satow, Kouji (Engineering and Drawing, Engineering Laboratory—Electrical).
Smyth, Fryer Thomas Acheson (Engineering Laboratory—Electrical).
Stewart, Frederick Robert (Engineering and Drawing).
Ure, Robert (Geology and Mineralogy).
Weller, Henry Owen (Geology and Mineralogy).

April, 1903.

Adams, Bernard Inman Franklin (Engineering Laboratory—Electrical).
Birkett, Hugh de Paynesley (Engineering and Drawing).
Blackley, Samuel (Engineering and Drawing).
Bondegaard, Ejnar (Engineering).
Bostock, William Henry Dorman (Engineering and Drawing, Electricity—Pure and Applied).
Crawford, William Jackson (Engineering and Drawing, Engineering Laboratory—Electrical).
Dempster, Thomas Grant (Engineering and Drawing).
Dickie, James Black (Naval Architecture and Drawing, Engineering).
Gray, James (Engineering and Drawing).
[2]Gray, James Gordon (Engineering and Drawing, Electricity—Pure and Applied).
[3]Hartley, Richard Frederick (Engineering and Drawing, Engineering Laboratory—Mechanical).
Howat, William Carrick (Engineering and Drawing).
Howden, James (Engineering Laboratory—Electrical).
[2]Kerr, Duncan John (Electricity—Pure and Applied).
Lobban, Charles Henry (Engineering and Drawing).
MacConnell, John Alexander (Engineering Laboratory—Electrical).
Mackay, Hugh Alexander (Engineering and Drawing).
[1]Maclean, Neil John (Engineering and Drawing, Electricity—Pure and Applied).
[4]Martin, John (Engineering and Drawing, Engineering Laboratory—Electrical).
Maxwell, John Maxwell Scott (Electricity—Pure and Applied).
Primrose, Clive Macfarlane (Engineering and Drawing).
Smyth, Fryer Thomas Acheson (Engineering and Drawing).
Steele, James Edward (Naval Architecture and Drawing).
[1]Summers, James (Engineering and Drawing, Electricity—Pure and Applied).
Tainsh, John Alexander Gowans (Engineering).
Weller, Henry Owen (Engineering and Drawing).
[3]Younger, John (Engineering and drawing, Engineering Laboratory—Mechanical).

[1] With Special Distinction in (*a*) Engineering and Drawing, (*b*) Electricity—Pure and Applied.

[2] With Special Distinction in Electricity—Pure and Applied.

[3] With Special Distinction in Engineering Laboratory—Mechanical.

[4] With Special Distinction in Engineering Laboratory—Electrical.

C. In Agriculture.

FIRST SCIENCE EXAMINATION.

April, 1903.

Leitch, Neil (Chemistry).
Paterson, William George Rogerson (Mathematics).

FINAL SCIENCE EXAMINATION.

October, 1902.

Lamont, Alexander Buchanan, M.A. (Agricultural Entomology, Experimental Physics).
Porter, John (Geology, Agricultural Botany, Agricultural Entomology, Engineering Field Work).

April, 1903.

Lamont, Alexander Buchanan, M.A. (Agriculture and Rural Economy, Agricultural Chemistry, Veterinary Hygiene).
Porter, John (Agriculture and Rural Economy, Agricultural Chemistry, Veterinary Hygiene, Economic Science, Engineering).
Struthers, John, M.A. (Geology, Agricultural Botany, Agricultural Entomology, Economic Science, Engineering Field Work).
Watt, Robert Dickie (Geology, Economic Science, Engineering Field Work).

V.—FOR CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

October, 1902.

Bianchi, Manuel Ireneo (Mathematics. Natural Philosophy).
Hartley, Sidney (Chemistry).
Harvey, William Barnett (Engineering and Laboratory, Drawing).
Hodge, Harry Fairlie (Natural Philosophy, Chemistry).
Muir, John Findlay (Engineering and Laboratory, Engineering Laboratory—Electrical.
Robertson, William Frank (Engineering and Laboratory).
Taylor, Bertram Fenwick (Mathematics).
Ure, Robert (Geology and Mineralogy).

April, 1903.

Blackley, Samuel (Engineering and Laboratory, Drawing).
Cousens, Henry James Morrison (Chemistry).
Hartley, Richard Frederick (Engineering and Laboratory, Drawing, Engineering Laboratory—Mechanical.)
Hartley, Sidney (Mathematics).
Hodge, Harry Fairlie (Mathematics).
Howat, William Carrick (Engineering and Laboratory, Drawing).
Lobban, Charles Henry (Engineering and Laboratory, Drawing).
M'Crindle, John Alexander (Mathematics, Engineering and Laboratory, Drawing).
Mackay, Hugh Alexander (Engineering and Laboratory, Drawing).
Martin, John (Engineering and Laboratory, Drawing, Engineering Laboratory—Electrical).
Steele, James Edward (Naval Architecture and Marine Engineering, Ship and Engineering Drawing).
Tainsh, John Alexander Gowans (Engineering and Laboratory).

VI.—FOR DEGREE OF M.A.

OLD REGULATIONS.

IN CLASSICAL LITERATURE.

April, 1903.—Johnstone, Samuel.

NEW REGULATIONS.

A.—LANGUAGE AND LITERATURE.

LATIN.

October, 1902.

Brown, William (Paisley).
Clark, George Frank.
Coats, William Holms (I. Hon.).
Copland, John.
Dickie, Robert.
Dryer, Oliver (II. Hon.).
Duncan, Margaret Lightbody.
Dunlop, James Kirkwood.
Goodfellow, Robert Kerr (I. Hon.).
Gordon, John (II. Hon.).
Harrison, Rhoda Gertrude.
Jamieson, Samuel Robertson.
Johnstone, Mary M'Dougall Leckie.
Lang, William.
M'Adam, William.
Macalpine, Alice Hilda.
Macdonald, Elsie Fraser.
M'Haffie, Isabella.
MacInnes, John (I. Hon.).
Mackenzie, Alexander Ramsay.
Macleod, Alexander.
Main, David Williams.
Marr, William Isaac Hutcheon.
Merry, Mary.
Millar, James.
Millar, William.
Moore, James.
Morgan, Irving Moffat.
Morrison, Roderick.
Muir, William.
Murray, Charles Robinson.
Nicolson, Donald.
Orr, John (II. Hon.).
Robertson, Grace.
Routledge, Janet Stewart.
Russell, Bessie.
Saunders, Frank William (II. Hon.).
Scott, John M'Naught.
Sinclair, Mary Graham.
Stephen, Campbell.
Stewart, Clementina Mitchell.
Stewart, John William.
Stewart, Matthew (II. Hon).
Stirling, Violet Binning.
Tinto, John Ferguson.
Towers, Thomas Dundas.
Vincent, Clarence James (III. Hon.).
Walker, George William.
Wardrop, Edward Hunter.
Wotherspoon, James Alexander.

April, 1903.

Alexander, James Neil.
Alexander, William Shanks.
Allan, Dorothy Spence.
Allan, Robert.
Allison, Alexander Grant Kilpatrick.
Anderson, Charles Hendrie.
Armour, Mary Fullarton.
Armstrong, Robert Stirling.
Barclay, William (I.).
Barrie, Mary Wilson.
Battersby, David Hardie.
Beaumont, George (II. Hon.).
Bell, John Cleminson.
Bernard, Robert Mitchell.
Black, John Bennett.
Blackwood, Bruce Beveridge.
Buchanan, Joseph Weir.
Burton, James Campbell.
Campbell, Archibald Angus.
Campbell, Catherine Love.
Carmichael, James.
Clark, Andrew.
Colquhoun, John.
Craig, Arthur.
Dickson, Douglas Stanley.
Duguid, Charles.
Dunlop, Archibald Hume.
Forrest, Elizabeth Alexander.
Fraser, George Sutherland.
Galbraith, Annie Isabel.
Gordon, George Stuart (I. Hon.).
Gordon, Monica Mary.
Graham, Thomas Forrest Harkness.
Grant, Alexander Colquhoun.

Greer, Samuel.
Guthrie, Hugh Boyd.
Hamilton, James.
Hardy, Margaret Mary.
Harper, Agnes.
Herbertson, George Richmond.
Houston, Jessie Spalding.
Hume, James.
Hunter, Helen Mackintosh.
Hutchinson, Duncan Bell.
Hynd, Alexander.
Insh, George Pratt.
Irvine, Annie Park.
Jenkins, Robert.
Jockel, Catherine Henrietta.
Kerr, William Miller.
Ketchen, Marjory Ogilvy.
Kettle, Margaret Crow.
King, William.
Krasser, Marie Friedrike.
Lee, Robert Ewing.
Leggat, David Taylor.
Littlejohn, John.
Livingstone, Daniel.
Logan, Jessie Grant Morrison.
M'Cracken, Winnie Jane.
M'Creadie, Elizabeth.
M'Dougall, Hugh.
Macdougall, Matta Park.
M'Ewen, Christina Cameron.
M'Gilchrist, Robina Douglas.
Macgregor, Murray.
M'Intosh, James.
M'Kelvie, James.
M'Kelvie, William.
M'Kinnon, Malcolm.
M'Laren, Martin Campbell.
Maclean, Charles.
Macleod, George.
MacMillan, Elizabeth.
MacMillan, Flora.
M'Millan, John Murray.
M'Nabb, Christian Wallace.
MacRae, Farquhar.
M'Shee, Andrew.
M'Whan, John.
Marr, James Henderson.
Maxwell, John Hamilton.
Morton, Margaret Steel.
Muir, Euphemia Helen Hunter.
Murchie, Robert Welch.
Murray, Richard.
Neilson, Ian Darroch.
Neilson, Marjory.
Neilson, Thomas.
O'Brien, Kathleen.
Oliphant, Grace.
Orr, John Neil.
Orr, John Reid.
Paterson, James Dunlop.
Paul, James.
Pearson, Margaret Hunter.
Pollock, Malcolm.
Potter, William.
Preston, Berry.
Richmond, William.
Robertson, George Robert.
Robertson, Jane Isabel.
Robertson, Muriel.
Russell, George.
Sage, Mary Dorothea.
Savage, Helen.
Scorgie, Agnes Dalziel.
Scott, Jean Young.
Scott, William (Paisley).
Scoular, Andrew Findlay.
Sempill, Hugh Douglas.
Silver, Alexander.
Smith, Jessie Murdoch.
Smith, William James.
Snodgrass, John William.
Sommerville, William.
Spens, Henry Glassford Bell.
Stewart, James (Lochee).
Stewart, William Wylie.
Strachan, William.
Sutherland, Euphemia Wenna.
Sutherland, Thomas.
Templeton, Andrew.
Thomson, Annie (Glasgow).
Thomson, James (Millerston).
Turner, Malcolm Kerr.
Waddington, Cecilia Jane.
Waddington, Mary Margaret.
Walker, John (Glasgow).
Wallace, William.
Watson, Christina Blair.
Watson, Donald Bannatyne.
Watt, Jeanie Bunten.
Waugh, Margaret.
Weir, Justina Thomson.
Weir, Marion.
Whitehead, William.
Williamson, James.
Wilson, Harold (II. Hon.).
Wright, John Murray.
Wright, Robert James.
Young, Robert Comingo.

GREEK.

October, 1902.

Armstrong, Robert Stirling.
Baxter, Thomas.
Biggar, Matthew.
Coats, William Holms (I. Hon.).
Dryer, Oliver (II. Hon.).
Dunlop, James Kirkwood.
Goodfellow, Robert Kerr (I. Hon.).
Gordon, John (II. Hon.).
MacInnes, John (I. Hon.).
M'Iver, Murdoch.
M'Kinlay, Robert.
Murray, Charles Robinson.
Orr, John (II. Hon.).
Russell, Albert.
Saunders, Frank William (II. Hon.).
Stewart, Matthew (II. Hon.).
Tinto, John Ferguson.
Vincent, Clarence James (III. Hon.).
White, Charles Eadie Park.
Woodburn, John Murray.

April, 1903.

Alexander, William Shanks.
Anderson, Jessie.
Beaumont, George (II. Hon.).
Bell, John Cleminson.
Blyth, Robert Oswald.
Buchanan, Joseph Weir.
Burton, James Campbell.
Carmichael, James.
Clark, Andrew.
Dickson, Douglas Stanley.
Elliott, Gilbert Wilkie.
Gordon, George Stuart (I. Hon.).
Graham, Thomas Forrest Harkness.
Grant, Alexander Colquhoun.
Grant, Robert Monteath.
Herbertson, George Richmond.
Hutcheson, John.
Hynd, Alexander.
Jenkins, Robert.
King, William.
Lambie, Henry.
Leggat, David Taylor.
M'Caig, Neil.
M'Kelvie, James.
M'Kelvie, William.
Maclean, Wilfred Gerald.
Maxwell, John Hamilton.
Miller, Campbell Lamont.
Murchie, Robert Welch.
Neilson, Ian Darroch.
Paterson, George.
Paterson, James Dunlop.
Potter, William.
Robertson, George Robert.
Russell, Leonard James.
Silver, Alexander.
Smith, David Bromfield.
Spens, Henry Glassford Bell.
Stuart, Mary Isabelle Moody.
Sutherland, Thomas.
Wilson, Harold (II. Hon.).

ENGLISH.

October, 1902.

Ackland, Dorothy
Barbour, Alexander Cunninghame.
Cameron, John Reid (I. Hon.).
Dickie, John.
Ewen, Christian.
Fullarton, Sarah Morton.
MacAlister, Malcolm, M.A. (II. Hon.).
MacDonald, Patrick Angus Macgregor.
Macmillan, Robert Alex. Cameron.
Main, Alexander.
Merry, William Robert Wilson.
Patterson, John, M.A. (I. Hon.).
Reid, Thomas.
Routledge, Janet Stewart.
Somerville, Elizabeth.
Steven, John Fraser.
Stevenson, James Hall.
Stewart, Thomas.
Walker, George William.

April, 1903.

Aitchison, William.
Anderson, John (Langside).
Anderson, Robert.
Baillie, John.
Baird, Andrew Cumming.
Barnes, Edgar.
Beaton, Alexander.
Black, William Duncan Thomson.
Black, William Paterson.
Blair, James Wilson.

Browning, Archibald.
Browning, Robert.
Bryan, William Rutherford.
Buchanan, James Robertson.
Cameron, John (Mull).
Cameron, John (Tiree).
Campbell, Archibald.
Campbell, William Ramsay.
Clark, George Frank.
Clark, Humphrey.
Clark, John Sawers.
Cowan, Arthur Aitken.
Craig, Wylie Mackie.
Cullen, Charles.
Cupples, Joseph.
Currie, Mary Darroch.
Dallas, Margaret.
Dewar, Robert.
Dick, David M'Culloch.
Donaldson, John.
Drape, Agnes Waugh.
Duncan, Andrew Rae.
Duncan, Thomas.
Dunlop, Archibald Hume.
Dunlop, James.
Dunn, Herbert.
Farmer, Charles Blackwood.
Fleck, John MacPherson.
Fleming, John Alexander.
Fletcher, Henry Mungles.
Fraser, William.
Gordon, Ida M'Gregor.
Gordon, James.
Hall, Hugh Lang.
Harvey, Margaret Arthur.
Henderson, William Watson.
Herriot, Jane Cumstie Williamson.
Howard, William.
Hughes, Joan Dorothea.
Hunter, John Miller.
Hunter, Mary Violet.
Inglis, Robert.
Jackson, Robert.
Jeffrey, George Johnstone,
Johnston, Mary M'Dougall Leckie.
Kedie, Annie Fraser.
Killin, Margaret Montgomerie.
Kinloch, John Laing, M.A. (II. Hon.).
Kirk, William Grant.
Kirkwood, Peter Scott.
Lamb, Jessie Fletcher.
Lambie, John.
Lang, John Finlayson.
Lawson, Gavin.
Lindsay, Euphemia.
Lindsay, Muriel Giffen.
M'Arthur, James.
M'Arthur, Neil.
M'Arthur, Peter Cunningham.
M'Bride, William.
M'Callum, Dugald.
M'Clemont, Hugh.
Macdonald, Elsie Fraser.
MacDougall, Netta.
M'Ewen, Thomas.
Macgill, William Duncanson.
M'Iver, Peter John.
Mackay, Alexander.
Mackenzie, Janet Millen.
M'Kerrow, Margaret Elizabeth.
M'Kinlay, Robert.
M'Kinlay, Robert Cromwell.
M'Laren, Duncan.
M'Murdo, James.
M'Pheat, William.
Manson, William.
Matheson, Margaret.
Maxton, Jessie M'Nicol Purdon.
Merry, Mary.
Miller, James.
Moore, James.
More, James Willam.
Morgan, Irving Moffat.
Morrison, Grace.
Morrison, Lina.
Neil, Jeanie Gemmill.
Nelson, Isabella Ure.
Niven, John.
Paterson, Neil Macleod.
Robertson, Grace.
Robertson, Richard Dunn.
Ross, Peter Storm.
Russell, James Gilchrist.
Scott, William (Stonehouse).
Shaw, Archibald.
Sommerville, Thomas.
Spence, Isabella.
Sturgeon, John.
Swan, John Arbuckle.
Thomson, Catherine Spence.
Thomson, Robert Cleghorn.
White, Alexander Mill.
White, William Dymock.
Whitecross, Williamina Chalmers
Wordie, William.
Young, William Finlayson.

FRENCH.

October, 1902.

Beaton, Alexander.
Burn, Jeannie.
Cameron, Mary Clow (I. Hon.).
Dickie, Robert.
Hubbard, Walter.
Morton, Christian Pettigrew Home, M.A. (II. Hon.).

April, 1903.

Alcorn, William Andrew.
Allison, Alexander Grant Kilpatrick.
Anderson, Margaret M'Kenzie.
Beaumont, Thomas.
Brand, Wilhelmina Reid.
Burns, James.
Carswell, Margaret Hunter.
Clark, Duncan Walker.
Coats, Olive Mary.
Fullarton, Sarah Morton.
Gillan, William.
Hogg, Gilbert Pitcairn.
Hunter, Jennie Cameron.
Laird, Lily Donaldson.
Lamb, Jessie Fletcher.
M'Fadyen, James.
Macgregor, Annie Murray.
Macgregor, Arthur Esdaile.
Macleod, George.
MacMillan, Flora.
Macphail, Janet Isabel.
M'Phee, John.
Mair, Margaret.
Millar, John.
Morrison, Lina.
Orr, John Boyd.
Orr, John Neil.
Percy, Dugald Ferguson.
Philip, Annie Glenday.
Reid, William Kirkpatrick.
Rice, Charles Macintyre.
Ritchie, Flora.
Scorgie, Agnes Dalziel.
Scott, John M'Naught.
Shaw, Christina Hamilton.
Thomson, Mary Emilie (I. Hon.).
Watt, Thomas Morrison.
Wilkie, Helen.
Wilson, Isabella.

GERMAN.

October, 1902.

Cameron, Mary Clow (I. Hon.).
Climie, Jenny Cumming.
Morton, Christian Pettigrew Home, M.A. (II. Hon.).

April, 1903.

Anderson, Margaret M'Kenzie.
Hogg, James (Uddingston).
Keddie, Janey Aitken.
Ketchen, Marjory Ogilvy.
Mackenzie, Bertha Agnes.
Macphail, Janet Isabel.
Morison, Elizabeth Gillies.
Munro, William Angus.
Philip, Annie Glenday.
Ritchie, William Tod.
Robertson, Annie Stewart.
Thomson, Mary Emilie (I. Hon.),
Wilson, Isabella.

HEBREW.

April, 1903.

Buchanan, James Robertson.

B.—MENTAL PHILOSOPHY.

LOGIC AND METAPHYSICS.

October, 1902.

Arneil, Loudon.
Beaton, Alexander.
Clark, George Frank.
Drape, Agnes Waugh.
Duncan, Andrew Rae.
Gilchrist, James Albert.
Gordon, Monica Mary.
Kerr, William (Beith).
Mackenzie, Peter Murchison.
M'Laren, Duncan.

Merry, William Robert Wilson.
Reith, George Douglas (II. Hon.).
Roberts, Eric James (I. Hon.).
Shepherd, Arthur.
Simpson, John Dunlop.
Smith, Robert Peden.
Somerville, Elizabeth.
Thomson, Archie Duncan (II. Hon.).
Thomson, Catherine Spence.
Wilson, Douglas Hamilton.

April, 1903.

Alcorn, William Andrew.
Allan, William.
Allison, Alexander Grant Kilpatrick
Anderson, Margaret M'Kenzie.
Barbour, Margaret.
Baxter, Thomas.
Bennett, Octavia Jane Ronald.
Blyth, Robert Oswald.
Borland, Alexander, M.A. (II. Hon.).
Bow, Jean Wilson.
Bowman, Archibald Allan.
Brayne, Albert Frederic Lucas.
Browning, Archibald.
Cameron, John (Tiree).
Campbell, Catherine (Taynuilt).
Campbell, Catherine Love.
Carswell, Margaret Hunter.
Carter, Arthur John Jenkins.
Christie, James Reid.
Clark, Humphrey.
Cullen, Thomas Thompson.
Cupples, Joseph.
Currie, Mary Darroch.
Dallas, Margaret.
Davidson, Francis.
Dawson, Archibald.
Dewar, Robert.
Dickie, Robert.
Douglas, Thomas Logan.
Duncan, Mary.
Dunlop, Archibald Hume.
Edward, Jeanie.
Egans, James.
Elliott, Gilbert Wilkie.
Ewen, Christian.
Findlay, John Alexander.
Forrest, Louise Margaret.
George, John Campbell.
Glen, Thomas Stobo.
Grant, Robert Monteath.
Guthrie, Hugh Boyd.
Hair, John (Muirkirk).
Harrison, Rhoda Gertrude.
Harvey, Jeanie Mitchell.
Helme, Charles George Gordon.
Herriot, Jane Cumstie Williamson.
Heughan, William Telford.
Hewitt, Jeanie Allan Telfer.
Hubbard, Walter.
Hunter, Jennie Cameron.
Hunter, John Miller.
Inglis, Robert.
Insh, George Pratt.
Jamieson, Margaret Brown.
Jones, Elias Henry.
Kellow, Henry Arthur.
Kerr, Dugald Macfie.
Killin, Margaret Montgomerie.
Kirk, Margaret Mary.
Kirk, William Grant.
Knowles, Isobel Alexander.
Laird, Lily Donaldson.
Lamb, Jessie Fletcher.
Lambie, Henry.
Lambie, John.
M'Arthur, James.
M'Clements, Robert Alexander.
M'Cracken, Winnie Jane.
M'Creath, James Fergusson.
Macdonald, Annie Violet.
Macdonald, Chrissibelle.
Macdonald, Elsie Frame.
MacDougall, Netta.
M'Fadyen, James.
Macfarlane, John.
Macfarlane, Robert.
M'Gilchrist, Robina Douglas.
M'Gill, Martha.
M'Gill, Mary Watson.
Macgregor, Arthur Esdaile.
M'Harg, James Adam.
M'Intosh, Robert Scott.
M'Intyre, Malcolm James.
Mackenzie, Mary Scott.
Mackie, Janetta Inglis Wyllie.
M'Kinnon, Ewen.
M'Lean, Archibald.
M'Lelland, William.
M'Naught, William.
Macphail, Janet Isabel.
M'Phun, Frances Mary.
Mair, Margaret.
Masterton, Jessie Vallance.
Mathieson, Mary Daisy.
Maxton, Jessie M'Nicol Purdon.
Menzies, James.
Merry, Mary.
Milburn, Walter.

Miller, Campbell Lamont.
Miller, William.
Muir, Douglas Alexander George.
Niven, Bessie.
O'Brien, Kathleen.
Orr, Andrew.
Patrick, Samuel Barr.
Preston, Berry.
Rankin, James Sabiston.
Reid, John.
Richmond, William.
Riddell, Thomas Park.
Ritchie, James.
Robertson, Grace.
Robertson, Jenny Torrance.
Ross, Alexander David.
Ross, Henry.
Routledge, Janet Stewart.
Russell, Bessie.
Scorgie, Agnes Dalziel.
Shaw, Walter.
Smith, Isabella Robson.
Sprunt, Annie Crichton.
Stenhouse, David.
Stewart, John William.
Stewart, Thomas.
Stewart, William Wylie.
Struthers, Lilian.
Stuart, Mary Isabelle Moody.
Towers, Thomas Dundas.
Trafford, Henry Martyn.
Tulloch, James.
Watson, John Charles.
Watt, Thomas Morrison.
Waugh, Margaret.
Woodburn, John Murray.

MORAL PHILOSOPHY.

October, 1902.

Black, Norman Annandale.
Bowie, John.
Conn, David.
Dick, David M'Culloch.
Ferguson, George.
Fleck, John M'Pherson.
Fletcher, Henry Mungles.
Gourley, James Nash.
Guthrie, Hugh Boyd.
Hair, John (Thornhill).
Lawson, Gavin.
M'Allister, George William.
M'Intyre, Wylie Robert.
Mackenzie, Alexander Ramsay.
M'Laren, Martin Campbell.
Reith, George Douglas (II. Hon.).
Roberts, Eric James (I. Hon.).
Selfridge, John.
Thomson, Archie Duncan (II. Hon.).
Watters, Alexander Marshall.
Wilson, James Lauder.
Young, Robert Comingo.

April, 1903.

Adam, Colin Black.
Alcorn, William Andrew.
Allan, William.
Anderson, Euphemia Logan Cairnie.
Baillie, John.
Barbour, Alexander Cunninghame.
Barbour, William.
Bayne, Alexander Robert.
Beaton, Alexander.
Bell, John.
Blair, Duncan.
Borland, Alexander, M.A. (II. Hon.).
Borland, William Dunlop.
Bowman, Archibald Allan.
Brown, John (Fauldhouse).
Buchanan, James Robertson.
Burn, Jeanie.
Burns, James.
Campbell, Archibald.
Christie, James Reid.
Clark, Duncan Walker.
Colquhoun, John.
Copland, John.
Cowan, Arthur Aitken.
Cromar, Frederick Gordon.
Cross, Robert Nicol.
Cullen, Charles.
Davidson, Francis.
Dow, William Johnstone.
Dudgeon, Peter.
Duncan, Andrew Rae.
Dunn, Herbert.
Findlay, William Erskine.
Forsyth, William.
Fraser, George Muir.
Fullarton, Sarah Morton.
Gardner, Alexander.
Gilchrist, James Albert.
Gillan, William.
Gordon, Ida M'Gregor.
Grant, Jessie Elizabeth Gollan.
Hamilton, Louis.
Hamilton, Robert Russell.
Hamilton, William.
Harvey, Margaret Arthur.
Henderson, Adelaide.

Hughes, John Rankin.
Hunter, Jennie Cameron.
Hunter, Jenny Gibson.
Hunter, John Mercer.
Hutton, Robert Fotheringham.
Jack, William.
Jackson, Robert.
Jamieson, Samuel Robertson.
Jardine, Lizzie Macnaughton.
Jeffrey, George Johnstone.
Johnson, Donald.
Keddie, Janey Aitken.
Kellow, Henry Arthur.
Laird, Lily Donaldson.
Lapsley, John.
Latta, Mary Muir.
Lindsay, Robert Robertson.
Lochhead, John Hamilton Barr.
M'Bride, William.
M'Callum, Dugald.
M'Coll, John.
MacDonald, Patrick Angus MacGregor.
M'Donald, William Henry.
Macdougall, Grace.
M'Ewen, Thomas.
Macfarlane, John.
M'Farlane, Margaret Conchie Raphael.
Macfarlane, Mary.
M'Gill, Mary Watson.
Macgill, William Duncanson.
MacGregor, James Campbell.
MacHaffie, John M'Keand.
M'Intyre, Malcolm James.
Mackenzie, Peter Murchison.
Mackenzie, Robert.
M'Kinlay, Robert.
M'Kinney, Alexander Doctor.
M'Kinnon, Ewen.
M'Laren, Duncan.
M'Lelland, William.
MacLeod, Neil.
MacMillan, Elizabeth.
MacMillan, Flora.
Macmillan, Robert Alexander Cameron.
M'Neill, Margaret.
Macpherson, Alexander Hugh.
MacRobert, Thomas Murray.
Main, David Williams.
Mair, Margaret.
Matthew, Edward Smith.
Millen, James White.
Milligan, Isabella Margaret.
More, James William.
Morrison, Grace.
Morrison, John Coutts.
Muir, Margaret Glendinning.
Muir, Morton Mungo.
Murray, Alexander.
Ness, Robert Ralston.
O'Beirne, Andrew Thomson.
Orr, John Boyd.
Paterson, John Neil MacLeod.
Patrick, Samuel Barr.
Paul, Agnes Jane.
Pennycook, George.
Picken, Agnes.
Rankin, Adam Aird.
Reid, John.
Reid, William Kirkpatrick.
Reynard, Marion Aiton Ballantyne.
Ritchie, Flora.
Ritchie, James.
Robertson, Richard Dunn.
Scott, John M'Naught.
Scott, Thomas Thripland.
Scoular, Andrew Findlay.
Sievwright, John Smith.
Smith, Grace Anne.
Smith, Thomas.
Somerville, Elizabeth.
Stephen, Campbell.
Steven, John Fraser.
Stewart, George.
Stewart, John William.
Swan, John Arbuckle.
Thomson, John Archibald Glover.
Thomson, Robert Cleghorn.
Turnbull, Arthur.
Walker, George William.
Walker, James Mitchell.
Watson, Donald Bannatyne.
Watt, Thomas Morrison.
Whytock, James.
Wilkie, Helen.

POLITICAL ECONOMY.

October, 1902.

Auld, William James.
Dalziel, Samuel James.
Dunn, Herbert.
Ferguson, George.
Macmillan, Ebenezer.
Phillips, Harry Joseph.
Richardson, John Macdonald, M.A. (III. Hon.).
Wilson, Douglas Hamilton.
Young, Robert Comingo.

April, 1903.

Biggar, Matthew.
Black, William Duncan Thomson.
Blair, Duncan.
Burns Robert (Larkhall).
Donald, William Buchan.
Duncan, Andrew Rae.
Farmer, Charles Blackwood.
Hall, Hugh Lang.
Hamilton, Robert (Cleland).
Lawson, Gavin.
Lewis, John.
Lindsay, James Hamilton.
MacLean, John (Wishaw).
MacPhail, Neil.
M'Pheat, William.
M'Phee, John.
Malcolm, Alice Annie Lumsden.
Merry, William Robert Wilson.
Miller, John (Motherwell).
Morrison, Roderick.
Muir, Morton Mungo.
Murray, Alexander.
Murray, Charles Robinson.
Murray, Thomas David King.
Reid, Maggie Miller.
Shennon, Malcolm.
Sloan, Tennant.
Smith, David Bromfield.
Smith, Hugh.
Swan, John Arbuckle.
Watt, Robert Dickie.
White, Charles Eadie Park.
Wilson, William Scott Branks.

THEORY, HISTORY, AND ART OF EDUCATION.

October, 1902.

Colquhoun, John.
Duncan, Mary.
Fullarton, Sarah Morton.
Gillan, William.
MacDougall, Netta.
M'Gilchrist, Robina Douglas.
Mackenzie, Peter Murchison.
M'Kinnell, John Scott.
Maxton, Jessie M'Nicol Purdon.
Morrison, John Coutts.
Neil, Jeanie Gemmill.
Rankin, Adam Aird.
Robertson, Jenny Torrance.
Tulloch, James.
Walker, James Mitchell (Whiteinch).

April, 1903.

Aitken, Hugh Hunter.
Anderson, Robert.
Blackstock, Charles Hugh.
Blair, James Wilson.
Bryan, William Rutherford.
Calderwood, Andrew Fulton.
Climie, Jenny Cumming.
Cuthbertson, John Montague.
Donald, Andrew.
Dunlop, James.
Easton, Mary Rodgerson.
Farquharson, Margaret Milne M'Connachie.
Fenter, Susie Ethel.
Fletcher, Henry Mungles.
Fraser, William.
Fulton, William Maxwell.
Glen, Thomas Stobo.
Henderson, Ruby Fergus.
Hewitt, Jeanie Allan Telfer.
Howard, William.
Jackson, Robert.
Johnston, Mary M'Dougall Leckie.
Kinloch, John Laing, M.A.
Kirkwood, Peter Scott.
Lambie, John.
Leiper, Eliza Boyd.
Lindsay, Euphemia.
M'Bryde, John.
M'Culloch, Finlay.
Macdonald, Annie Violet.
Macdonald, Chrissibelle.
Macdonald, Elsie Fraser.
M'Geachin, Margaret Allen.
M'Ilroy, Susan.
M'Kechnie, Duncan.
Mackenzie, Janet Millen.
M'Kinlay, Robert Cromwell.
M'Kinney, Alexander Doctor.
M'Murdo, James.
Matheson, Margaret.
Millar, James.
Mitchell, Helen Armour.
Moore, James.
Pairman, George.
Rice, Charles Macintyre.
Ritchie, William Tod.
Robertson, Richard Dunn.
Ross, Alexander David.
Russell, Bessie.

Russell, James Gilchrist.
Scott, William (Stonehouse).
Smith, Isabella Robson.
Spence, Isabella.
Stirling, Violet Binning.
Sturgeon, John.
Thompson, William Lindsay, M.A.
Thomson, William John Johnstone.
Waddell, William Gillan.
White, Alexander Mill.
White, William Dymock.
Whitecross, Williamina Chalmers.
Wilson, James Lauder.

C.—SCIENCE.

MATHEMATICS.

October, 1902.

Anderson, Margaret M'Kenzie.
Barbour, Margaret.
Brand, Wilhelmina Reid.
Brown, Alexander.
Brown, James.
Brown, John Dunlop.
Butters, Harry.
Campbell, Catherine (Taynuilt).
Chalmers, Maggie.
Cochrane, James.
Conn, Robert.
Currie, Mary Darroch.
Donald, Andrew.
Edgar, John Henderson.
Egans, James.
Findlay, John Alexander.
Galbraith, James Brunton (III. Hon.).
Gillan, William.
Graham, Seymour.
Gray, Robert.
Guthrie, Alice Margaret Blyth.
Guthrie, John.
Hamilton, Louis.
Harrison, Rhoda Gertrude.
Harvey, George Thomson.
Henderson, Robert.
Houstoun, Robert Alexander (I. Hon.).
Howat, William.
Hunter, Jenny Gibson.
Hunter, Thomas Downie.
Inglis, Robert.
Jamieson, William.
Jordan, James William.
Kirk, Margaret Mary.
Knowles, Isobel Alexander.
Lindsay, James Hamilton (I. Hon.).
Livingston, Margaret Hay (II. Hon.).
Macalpine, Alice Hilda.
M'Arthur, Neil.
M'Bean, Alexander.
Macdonald, Elsie Frame.
MacGregor, Arthur Esdaile.
Mackenzie, Evandrina MacIver.
Mackenzie, Mary Scott.
M'Kinney, Alexander Doctor.
MacMillan, Peter.
M'Naught, William (II. Hon.).
Matheson, Margaret.
Millar, Robert (III. Hon.).
Moore, James.
Morrison, Grace.
Morrison, Roderick.
Murray, Charles Robinson.
Nicholson, Clark.
Pollock, George Alexander.
Rankin, James Sabiston.
Ritchie, Allan Marshall.
Robertson, Grace.
Robertson, Jane Isabel.
Robertson, Jenny Torrance.
Ross, John Morison.
Russell, James Gilchrist.
Rutherford, William Steel.
Skilling, Samuel Ritchie.
Sprunt, Annie Crichton.
Stenhouse, David.
Stevenson, James Hall.
Stewart, John Henderson (II. Hon.).
Stewart, Thomas.
Thompson, William Lindsay (I. Hon.).
Thomson, John Archibald Glover.
Young, William Finlayson.

April, 1903.

Aitken, Alexander Kerr.
Aitken, Hugh Hunter.
Aitken, Mary Gardner.
Allan, Dorothy Spence.
Allan, Robert.
Anderson, Charles Hendrie.
Anderson, Jessie.
Anderson, John Wilson.
Archibald, Constance Helen Margaret.
Armour, Mary Fullarton.

Barclay, William (I.).
Barrie, Mary Wilson.
Baxter, Thomas.
Beaumont, Thomas.
Bennett, Octavia Jane Ronald.
Bernard, Robert Mitchell.
Black, Duncan.
Black, John Bennett.
Blackwood, Bruce Beveridge.
Brooke, Phœbe Martha.
Brown, Agnes Cowie Steel.
Browning, Robert.
Cameron, Daniel.
Campbell, Archibald Angus.
Campbell, Duncan William.
Campbell, William Ramsay.
Carmichael, James.
Clark, Andrew.
Craig, Wylie Mackie.
Davidson, Joseph.
Dow, William Johnstone.
Downie, Catherine.
Duguid, Charles.
Duncan, Thomas.
Dunlop, James Kirkwood.
Fairlie, James Carrick Miller.
Ferguson, William Given.
Forrest, Elizabeth Alexander.
Fyfe, Alexander.
Greenfield, Elizabeth Curle.
Haddow, Hugh Reid.
Hamilton, Robert Russell.
Hannah, James.
Harper, Agnes.
Henderson, Adelaide.
Henderson, Ruby Fergus.
Hinkins, John.
Hogg, James (Uddingston).
Hughes, John Rankin.
Hunter, John Mercer.
Hutchinson, Duncan Bell.
Hutton, Robert Fotheringham.
Hynd, Alexander.
Irvine, Alexander Hyndman.
Irvine, Annie Park.
Jardine, Lizzie Macnaughton.
Johnstone, Robert Hanna.
Keddie, Janey Aitken.
Kerr, Dugald Macfie.
Kerr, William Miller.
Krasser, Marie Friedrike.
Lang, Archibald (I. Hon.).
Lang, William Paterson.
Lee, Robert Ewing.
Leitch, Renwick Hutson.
Levine, Jacob.
Lindsay, Muriel Giffen (II. Hon.).
Lindsay, Robert Robertson.
Littlejohn, John.
Livingstone, Daniel.
M‘Caig, Neil.
M‘Creadie, Elizabeth.
MacCulloch, Walter Malcolm.
M‘Geachin, Margaret Allen.
M‘Gown, Janet Gilmour.
Macgregor, Murray.
Mackenzie, Allan Ross.
M‘Kinnon, Malcolm.
Maclauchlan, Jenny Gray.
M‘Lean, Archibald.
M‘Leish, Jessie Marjorie.
Macleod, George.
M‘Phun, Frances Mary.
MacRae, Farquhar.
Macrae, Malcolm Beaton.
MacRobert, Alexander Fisher.
Main, James Hunter.
Marshall, Agnes Macrae.
Millar, John.
Miller, Thomas.
Milligan, John Donald.
Milne, William Murray.
Mitchell, Helen Armour.
Moir, James Campbell (III. Hon.).
Monie, Matthew Morton.
Morison, Elizabeth Gillies.
Morton, Margaret Steel.
Muir, William.
Munro, John Martin.
Munro, William Angus.
Murchie, Robert Welch.
Napier, Robert Hellier.
Neilson, Marjory.
Niven, John.
Ogilvy, William Morton.
Oliphant, Grace.
Paul, James.
Pearson, Margaret Hunter.
Pitcairn, Arthur.
Pollock, Malcolm.
Rae, Richard.
Rankine, John.
Robertson, George Robert.
Robertson, Muriel.
Ross, Peter Storm.
Ross, Stewart Louis Walter.
Rowse, Harold Charles.
Russell, George.
Sage, Mary Dorothea.
Savage, Helen.
Scott, Jean Young.
Scott, Thomas Thripland.

Scott, William (Paisley).
Sempill, Hugh Douglas.
Shanks, Thomas.
Sievwright, John Smith.
Simpson, Robert.
Simpson, Thomas Paul.
Skelley, Robert.
Smith, Hugh.
Smith, Jessie Murdoch.
Snodgrass, John William.
Sommerville, Thomas.
Sommerville, William.
Stephen, Campbell.
Stewart, George.
Stewart, James (Lochee)
Sutherland, Euphemia Wenna.
Templeton, Andrew.
Thomson, Annie (Glasgow).
Thomson, James (Millerston).
Trafford, Henry Martyn.
Waddington, Mary Margaret.
Walker, Hector.
Watson, Christina Blair.
Watt, Jeanie Bunten.
Weir, Justina Thomson.
Weir, Ralph Sommerville.
White, William Kay.
Whitehead, William.
Williamson, James.
Wilson, William Scott Branks (III. Hon.).
Woodburn, John Murray.
Wyllie, Jessie.

NATURAL PHILOSOPHY.

October, 1902.

Alexander, Robert.
Dewar, Robert.
Galbraith, James Brunton (III. Hon.).
Green, George.
Greer, Samuel.
Henderson, Robert.
Henderson, William Watson.
Houstoun, Robert Alex. (I. Hon.).
Hudson, Alice Beatrice.
Leitch, Neil.
Lindsay, James Hamilton (I. Hon.).
Livingston, Margaret Hay (II. Hon.).
M'Arthur, James.
M'Arthur, Peter Cunningham.
M'Connachie, John Allan.
M'Naught, William (II. Hon.).
Millar, Robert (III. Hon.).
Morton, Thomas Edward.
Reid, William Kirkpatrick.
Scorgie, Agnes Dalziel.
Stewart, John Henderson (II. Hon.).
Thompson, William Lindsay (I. Hon.).
Wallace, William.
Weir, Marion.

April, 1903.

Anderson, John (Langside).
Baird, Andrew Cumming.
Barbour, Margaret.
Black, Duncan.
Borland, William Dunlop.
Brown, John (Fauldhouse).
Bryan, David.
Burns, James.
Calderwood, Andrew Fulton.
Cross, Robert Nicol.
Donald, Andrew.
Donald, Gavin M'Culloch.
Donald, William Buchan.
Dunn, Theodore Douglas.
Gillan, William.
Grant, Robert.
Hay, John Primrose.
Hinkins, John.
Hogg, Gilbert Pitcairn.
Hogg, James (Kilbirnie).
Hunter, Mary Violet.
Kaye, John.
Lang, Archibald (I. Hon.).
Lindsay, Hilda Oliphant.
Lindsay, Muriel Giffen (II. Hon.).
Lindsay, William Macskimming.
M'Adam, William.
M'Allister, George William.
M'Bride, William.
M'Gown, Janet Gilmour.
Mackenzie, Allan Ross.
M'Kerrow, Margaret Elizabeth.
MacRobert, Thomas Murray.
Main, James Hunter.
Malcolm, William Risk.
Marr, William Isaac Hutcheon.
Miller, James.
Miller, Thomas.
Moir, James Campbell (III. Hon.).
Moore, James.
Murray, Alexander.
Neilson, Thomas.
O'Beirne, Neil Hay.
Orr, John Boyd.

Patrick, Adam.
Purdie, John.
Routledge, Janet Stewart.
Selfridge, John.
Stephen, Campbell.
Steven, John Fraser.
Sturgeon, John.
Thomson, John Archibald Glover.
Waddell, William Gillan.
Wardlaw, Robert Stalker.
Weir, Ralph Sommerville.
Wilson, William Scott Branks (III. Hon.).

ASTRONOMY.

April, 1903—Tinto, John Ferguson.

CHEMISTRY.

October, 1902.

Aird, Janet Roberton.
Barnes, Edgar.
Borland, William Dunlop.
Hunter, James.
M'Arthur, Peter Cunningham.
Picken, Agnes.
Wright, Charles Mgkee.

April, 1903.

Baird, Andrew Cumming.
Forrest, Samuel Norris.
Leitch, Neil.
Middleton, John Clark.

ZOOLOGY.

October, 1902—Nelson, Jannette Reid Bartholomew.

April, 1903.

Barnes, Edgar.
Brown, William (Paisley).
Lindsay, James Hamilton.
Middleton, John Clark
Nicholson, Clark.
Turnbull, Arthur.

BOTANY.

October, 1902.

Barbour, Margaret.
Nicholson, Clark.

D.—HISTORY AND LAW.

HISTORY.

October, 1902.

Bell, John.
Black, William Duncan Thomson.
Goodfellow, Robert Kerr.
Greer, Samuel.
Guthrie, Hugh Boyd.
M'Callum, Dugald.
M'Donald, Roderick Alexander.
Stewart, George (I. Hon.).
Sutherland, William (II. Hon.).
Wilson, Kate.

April, 1903.

Aitken, Alexander Kerr.
Alexander, James Neil.
Baillie, John.
Blackstock, Charles Hugh.
Bowie, John.
Brown, John (Fauldhouse).
Cameron, John (Tiree).
Campbell, Catherine (Taynuilt).
Campbell, Duncan William.
Campbell, William Ramsay.
Carter, Arthur John Jenkins.
Clark, George Frank.
Cochran, Andrew.
Conley, Neil.
Conn, Robert.
Cook, Thomas Kinnear.
Davidson, Francis.
Dawson, Archibald.
Deans, William Smellie.
Dewar, Robert.
Dickie, Robert.
Donald, Gavin M'Culloch.

Donaldson, John.
Dunlop, James.
Dunn, Theodore Douglas.
Edward, Jeanie.
Elliott, Gilbert Wilkie.
Ewen, Christian.
Falconer, John Alexander.
Ferguson, William Given.
Fleming, John Alexander.
Grant, Robert Monteath.
Grant, William.
Grieve, George.
Hay, John Primrose.
Henderson, Samuel Leslie.
Hepburn, William Alexander.
Howard, William.
Hughes, Joan Dorothea.
Hunter, Jenny Gibson.
Johnson, Donald.
Kaye, John.
Kellow, Henry Arthur.
Kirkwood, Peter Scott.
Lang, William Paterson.
Levine, Jacob.
Lindsay, James Hamilton.
Lindsay, Robert Robertson.
Love, Arthur Patrick.
Love, James Black.
M'Adam, William.
Macalpine, Alice Hilda.
M'Coll, Robert.
M'Creath, James Fergusson.
Macdonald, Donald.
Macdonald, Elsie Frame.
MacDougall, Netta.
Macfarlane, John.
M'Gill, Martha.
Macgill, William Duncanson.
Macgregor, Arthur Esdaile.
M'Intosh, James.
M'Intosh, Robert Scott.
Mackay, Alexander.
Maclean, Wilfred Gerald.
MacLeod, Neil.
M'Murdo, James.
M'Vicar, Angus John.
Main, James Hunter.
Malcolm, Alice Annie Lumsden.
Matheson, John.
Menzies, James.
Milne, William Murray.
Morgan, Irving Moffat.
Nicolson, Donald Macdonald.
Paul, Agnes Jane.
Percy, Dugald Ferguson.
Pollock, James Macdougall.
Rankine, John.
Reid, John.
Riddell, Thomas Park.
Ross, Alexander David.
Ross, George.
Ross, George Mill.
Routledge, Janet Stewart.
Russell, James Gilchrist.
Scott, William (Stonehouse).
Selkirk, William.
Shaw, Archibald.
Simpson, Robert.
Sloan, Tennant.
Smith, Sydney.
Steven, James Alexander.
Steven, John Fraser.
Stewart, Kenneth.
Stewart, Thomas.
Stewart, William Salmond.
Thomson, William John Johnstone.
Walker, James (Larkhall).
Weir, Ralph Sommerville).
Whitecross, Williamina Chalmers.
Wilson, Douglas Hamilton.
Woodburn, John Murray.
Wordie, William.
Young, Mary M'Coll.

CONSTITUTIONAL LAW AND HISTORY.

October, 1902.

Haldane, John Rodger.
Mackenzie, Robert.
Merry, William Robert Wilson.

April, 1903.

Brown, Alexander.
Cromar, Frederick Gordon.
Howat, William.
Hutton, Frederick Robert Hughes.
Macalpine, Alice Hilda.
MacEwen, Sydney Melrose.
MacGregor, James Campbell
Marr, James Henderson.
Murray, Richard.
Strachan, William.
Waddell, Bryce Martin.

ROMAN LAW.

October, 1902.

Findlay, John Alexander.
Haldane, John Rodger.
Johnston, Robert Buchanan.
Mackenzie, Robert.
Ross, George.

April, 1983.

Bell, John.
Brown, Alexander.
Brown, William (Bothwell).
Cook, Thomas Kinnear.
Cullen, Thomas Thompson.
Cuthbertson, John Montague.
Gilchrist, James Albert.
Graham, Seymour.
Grieve, Weir.
Grieve, William Crawford.
Hamilton, Robert (Glasgow).
Hubbard, Walter.
Hunter, John Mercer.
Jamieson, Samuel Robertson.
Lapsley, John.
M'Laren, Duncan.
M'Laren, Martin Campbell.
M'Millan, Malcolm.
M'Shee, Andrew.
Mair, John (Paisley).
Merry, William Robert Wilson.
Morrison, John Coutts.
Mortimer, John Chapple.
Muir, Morton Mungo.
Murray, Richard.
O'Sullivan, Nora.
Rankin, James Sabiston.
Roden, Richard Dunn.
Ronald, William Elder.
Scott, James Edward.
Whitelaw, John.
Whytock, James.

PRELIMINARY EXAMINATION FOR DEGREES IN ARTS AND SCIENCE.

The following passed in the subjects indicated (L., Lower ; I., Intermediate ; H., Higher) :—

October, 1902.

Aitchison, William (L. Latin).
Aitken, Alexander Kerr (L. Greek).
Aitken, Hugh Hunter (English, H. Math., Dynamics).
Aitken, Mary Gardner (L. Latin).
Alexander, James Neil (I. Math., H. Greek, French).
Alexander, William Shanks (H. Math., H. Greek).
Allan, James Craig (English).
Allan, Margaret Elizabeth (L. Latin).
Allan, Robert (English, French).
Anderson, Helen Liddell (L. Math.).
Anderson, Robert (French).
Andrew, Thomas Adams (Dynamics).
Archibald, Robert Richmond (English, L. Latin, French).
Arkieson, Charles (I. Math.).
Armour, Mary Fullarton (I. Math.).
Barbour, Alexander Cunninghame (L. Latin).
Battersby, David Hardie (H. Greek).
Beckett, William (L. Latin, French).
Bell, Margaret Scott (L. Latin).
Bennett, William (L. Latin).
Beveridge, James (L. Latin).
Bingham, Letitia (L. Latin).
Black, James (English).
Blackstock, Charles Hugh (L. Latin).
Blair, Henry (English, H. Latin, H. Greek).

Boyd, James Rae (I. Math.).
Brand, David Ernest (I. Math., L. Latin, L. Greek).
Brightman, John Henry (L. Latin, Dynamics).
Brooke, Phoebe Martha (H. Latin).
Brown, James Shaw (L. Latin, L. Greek).
Brown, James Westhall (H. Math., L. Latin).
Browning, Archibald (L. Greek).
Buchan William (I. Math., L. Latin).
Buchanan, James Robertson (Hebrew).
Buchanan, Joseph Weir (H. Latin, H. Greek).
Burn, Jeannie (L. Latin).
Caldwell, Peter Scott (I. Math.).
Cameron, John (Mull) (H. Latin).
Campbell, Archibald Angus (L. Greek).
Campbell, James Alexander (L. Greek).
Campbell, Malcolm George (H. Math.).
Carmichael, Isabella (I. Math.).
Carruthers, Frank (Dynamics).
Clark, Humphrey (L. Latin).
Clark, Margaret Elizabeth (L. Latin).
Cochrane, John Ivy (I. Math., L. Latin).
Collingwood, John Crawford (L. Latin).
Connell, Kenneth M'Kenzie (L. Latin).
Cormack, James Alexander (English).
Corrie, Richard Clayton (L. Latin, L. Greek).
Cowie, Peter Buchan Watson (English, H. Math.).
Craig, Wylie Mackie (English, French).
Crichton, Robert (Dynamics).
Cromar, Dorothea Wilhelmina (English, French).
Cullen, Charles (L. Latin).
Currie, Neil Maclean (L. Latin, L. Greek).
Darroch, John Alister (I. Math.).
Davidson, Joseph (H. Math., L. Latin, L. Greek).
Davidson, William (I. Math.).
Dick, Jennie (L. Latin).
Don, Elizabeth (L. Math.).
Donald, Andrew (L. Latin).
Dow, William (I. Math., L. Latin).
Downie, David (English, I. Math., Dynamics).
Downie, Fredrick Habler (Dynamics).
Drummond, John (L. Latin).
Duncan, Mary (L. Latin).
Dunlop, John Christopher (English, H. Math., German, Dynamics).
Ellis, Thomas (H. Math., Dynamics).
Ewan, John Lyon (English).
Ferguson, John Thomson (L. Math., L. Latin, L. Greek).
Findlay, James Wilkie (L. Latin, L. Greek).
Finlayson, Elizabeth Campbell (L. Latin, French).
Finlayson, Kenneth (English, L. Math., L. Latin, French).
Forrest, Louise Margaret (L. Latin).
Fyfe, Henry Halcro (English, L. Latin).
Gallagher, Mary Theresa (L. Latin).
Gardiner, Jane Gould (I. Math.).
Garvie, William (I. Math.).
Gemmell, Margaret (German).
Georgoussis, Philopemen (French).

Gifford, Randolph Douglas (L. Math.).
Gillies, Norman M'Leod (I. Math.).
Gilmour, Matthew (English).
Gordon, Albert William (English).
Gordon, Clementina Mary (L. Latin, German).
Gordon, Donald Campbell Bryce (H. Latin, Dynamics).
Graham, James (French, Dynamics).
Graham, Thomas Forrest Harkness (H. Greek).
Grahame, John Alexander (English, L. Math., L. Latin, L. Greek).
Grant, Robert Monteath (H. Greek).
Grant, William (L. Latin).
Gray, Stewart Dickson (L. Math., L. Latin).
Gueritz, Elton Lawrence (L. Math.).
Guy, Philip Langstaffe Ord (English, H. Latin, H. Greek).
Halley, Matthew White (I. Math., Dynamics).
Hamilton, James (French).
Hamilton, Mary Maclaren (L. Math.).
Harper, James (L. Latin).
Harvie, George (English, I. Math.).
Hattrick, John Montgomerie (English, Dynamics).
Henderson, Adelaide (L. Latin).
Henderson, John Alexander (English, French).
Henderson, Samuel Leslie (English, Dynamics).
Henderson, Walter (H. Math.).
Hendry, John M'Lean (L. Latin, L. Greek).
Herbertson, George Richmond (H. Greek).
Hindmarsh, Margaret (English, L. Math., L. Latin, French).
Hinkins, John (L. Latin, Dynamics).
Hogarth, Annetta Pollok (L. Latin).
Hollis, Guy Denzil (English, I. Math.).
Houstoun, Matthew Barr (L. Latin).
Howden, William Hay (L. Latin).
Hunter, Mary (L. Latin).
Inglis, Robert (L. Latin).
Irvine, Alexander Hyndman (L. Latin).
Iwane, Tomochika (H. Math.).
Jack, Andrew (English).
Jack, Archibald (French).
Jackson, George (English, H. Math.).
Jackson, Isabella Mary (English).
Jardine, Lizzie Macnaughton (L. Latin).
Jeffrey, Frank (L. Latin, L. Greek).
Johnston, James (I. Math.).
Johnston, John Ferguson (L. Greek).
Johnston, William George (I. Math., L. Latin).
Jolly, Elizabeth Averill (English, L. Latin).
Kelso, Robert John (L. Latin).
Kennedy, David (L. Latin).
Kettle, Margaret Crow (H. Latin).
King, William (English).
Kivlichan, Agnes (I. Math., L. Latin).
Knowles, Isobel Alexander (L. Latin).
Laird, Andrew James Liddell (L. Latin, Dynamics).
Lang, John Finlayson (H. Latin).
Lang, William Paterson (L. Latin).
Lees, David (I. Math.).

Lees, Kate Muir (L. Latin).
Leggat, David Taylor (H. Greek).
Leitch, Donald (L. Latin).
Lindsay, Catherine (L. Latin).
Livingstone, Daniel (L. Greek).
Love, James Black (H. Math., Dynamics).
Lyle, Bessie (H. Math.).
M'Arthur, James (H. Latin).
M'Bain, Elspeth (L. Latin).
M'Beath, John (H. Math.).
M'Caig, Neil (H. Greek).
M'Caskill, Neil (English, I. Math.).
M'Coll, Allan M'Dougall (H. Math.).
M'Coll, John (L. Latin).
M'Coll, Robert (Dynamics).
M'Conville, John (L. Math.).
M'Cracken, Maurice James (L. Math.).
M'Culloch, Mary Malcolm (L. Latin).
Macdonald, Alexander (H. Math., Dynamics).
M'Donald, Alexander John Davidson (H. Latin).
MacDonald, John Finlay (L. Latin).
Macdonald, Thomas Donald (English).
M'Fadyen, Mortimer Livingstone (I. Math.).
Macfadzean, James (French, Dynamics).
Macfarlane, Ellen Catherine (French).
Macfarlane, Ernest Benner Ker (H. Math., Dynamics).
Macfarlane, Robert (Blackford) (H. Latin).
M'Garva, Grace (L. Math., French).
MacGilp, Catherine Ferguson (French).
M'Gown, Janet Gilmour (L. Latin).
M'Gregor, John (English).
M'Gregor, Josiah Gilray (I. Math.).
M'Harg, James Adam (L. Latin).
M'Innes, John (H. Math., L. Latin).
Mackay, Angus Murray (I. Math.).
M'Keith, Grace Smith Sloan (L. Latin).
Mackenzie, Allan Ross (English, H. Math., H. Latin, French).
Mackenzie, Bertha Agnes (L. Latin).
Mackenzie, Colin Young (English, French).
Mackie, Janetta Inglis Wyllie (L. Latin).
M'Kinlay, Robert Cromwell (Dynamics).
Mackintosh, Angus William (I. Math.).
M'Laren, Archibald (L. Latin).
M'Lean, Alexander (English, H. Latin).
M'Lean, Alfred Donald (L. Latin).
M'Lean, Benjamin (L. Math., L. Greek).
M'Leod, James Walter (H. Latin, French).
M'Millan, James Henderson (English).
M'Millan, Malcolm (L. Latin).
M'Millan, Robert Kerr (English, L. Latin).
M'Minn, John Huie (I. Math.).
M'Neil, Jeanie Howie (H. Latin).
Macphie, Donald (L. Latin).
MacRobert, Alexander Fisher (L. Greek).
Maben, Mary (I. Math.).
Martin, Annie (L. Math.).

Martin, Nathaniel (I. Math., French, Dynamics).
Matheson, John (L. Latin).
Matthew, Edward Smith (English, H. Math., H. Latin, French).
Maxwell, James (L. Greek).
Mayer, Frederick (French).
Merry, William Johnston (English, H. Math., H. Latin, French).
Miller, Moses (L. Latin).
Milne, William Murray (L. Latin).
Mitchell, Helen Armour (L. Latin).
Mitchell, William (H. Math.).
Monie, Matthew Morton (Dynamics).
Montgomerie, Jane Love (I. Math., L. Latin).
Morison, Elizabeth Gillies (L. Latin).
Morison, Winifred Dougall (H. Latin).
Morrison, Roderick (H. Greek).
Morton, Margaret Steel (H. Math.).
Mowat, Alexander (I. Math., L. Latin, Dynamics).
Moyes, Emily Alexandrina (I. Math.).
Muir, Margaret Glendinning (L. Math.).
Muirhead, Thomas (English).
Murchie, Robert Welch (H. Greek).
Murray, Helen Downie (L. Latin).
Murray, Mary Weir (L. Math., French).
Napier, Andrew Dunseath (English).
Neilson, Duncan Hamilton (I. Math., H. Greek).
Neilson, Robert (H. Math.).
Nicolson, Donald (I. Math.).
Nisbet, William (L. Latin).
Niven, Bessie (H. Latin).
Norwell, Robert Nicol (English, H. Math., Dynamics).
Notman, Thomas (H. Latin).
Orr, John Reid (H. Latin).
Oswald, Helen Johnston (L. Math.).
Paterson, Donald (L. Latin).
Patrick, Samuel Barr (English, H. Math., L. Latin).
Pearson, Mary (I. Math.).
Phillips, James (L. Latin).
Picken, Ralph Montgomery Fullarton (H. Math., H. Greek).
Pirie, John (English, H. Math., H. Latin, French).
Prentice, John Hamilton (I. Math., L. Latin).
Preston, Berry (H. Latin, H. Greek).
Purves, George Thomson (I. Math., Dynamics).
Rae, James Barr (Dynamics).
Rankine, John (L. Latin).
Reid, John (Lochwinnoch) (L. Math., L. Latin, L. Greek).
Reid, William (I. Math.).
Ritchie, Thomas (H. Math., H. Latin, H. Greek).
Robertson, Alexander Morris (English).
Robertson, Annie Stewart (H. Latin).
Rodger, John Leitch (Dynamics).
Ross, Agnes (English).
Ross, George Mill (L. Latin).
Ross, Lachlan M'Millan (English).
Ross, Mary Bella (L. Latin).
Ross, Peter Storm (L. Latin).
Russell, John (I. Math.).

Russell, Maud (H. Math., French).
Sage, Mary Dorothea (H. Latin).
Sanders, John Frederic (English).
Savage, Helen (H. Latin).
Scorgie, Agnes Dalziel (H. Latin).
Scotland, Robert (English).
Scott, Alexander (L. Latin).
Scott, William Ritchie Paton (L. Latin, L. Greek).
Sewell, William Alexander (L. Math., L. Greek).
Sexton, George Alexander (Dynamics).
Shanks, Henry (L. Math.).
Shanks, Thomas (L. Latin).
Shaw, Christina Hamilton (H. Latin).
Simpson, Mary (L. Latin).
Sinclair, Annie Macadam (L. Latin).
Slodre, Edmondo (English, I. Math., French).
Smith, Christina Steel (English, French).
Smith, David Bromfield (L. Latin, H. Greek).
Smith, Jessie (H. Math.).
Smith, Sydney (L. Math., Dynamics).
Smith, Thomas (English, H. Math.).
Snodgrass, John William (H. Latin, H. Greek).
Sommerville, Thomas (H. Math., L. Latin).
Spence, Isabella (L. Latin).
Spens, Henry Glassford Bell (English).
Stevenson, James (L. Latin).
Stewart, James Gibb (English, H. Math., Dynamics).
Stewart, May Eliza (L. Math.).
Stewart, William Wylie (L. Greek).
Struthers, James Barr (L. Latin, French).
Stuart, Mary Isabelle Moody (H. Greek).
Sutherland, Euphemia Wenna (English, H. Math., H. Latin, H. Greek, French).
Sutherland, Maggie Millen Jeffs (I. Math.).
Sutherland, Thomas (H. Latin, H. Greek).
Symons, John Wade (H. Math., Dynamics).
Taylor, Catherine Stuart (I. Math.).
Taylor, Charles Allison (English, H. Math., L. Latin).
Taylor, David (H. Latin).
Taylor, Margaret Oswald (English).
Templeton, Andrew (H. Latin, L. Greek).
Thomson, Agnes Cunninghame Petrie (H. Math., L. Latin).
Thomson, Annie (Elgin) (I. Math., L. Latin).
Thomson, James (Airdrie) (L. Math., L. Latin, Dynamics).
Thomson, Robert Percy (H. Math.).
Tulloch, James Allan (English, H. Math., L. Latin).
Tulloch, Robert (L. Latin).
Turner, John (H. Math., Dynamics).
Turner, Thomas Brown (I. Math.).
Waddell, William Gillan (English, H. Math., H. Latin, H. Greek).
Walker, Hector (H. Math., H. Latin, French).
Walker, James Mitchell (Whiteinch) (L. Latin.)
Walker, Robert Leitch (H. Math., L. Latin, French).
Wallace, Arthur Stanley (H. Greek).
Wallace, James Elliot (L. Latin).
Walton, Andrew Kerr (English, L. Latin, L. Greek).

Weir, Lachlan MacNeill (English, L. Latin).
Westwater, James (L. Latin).
Whitson, Edith Mary (L. Latin).
Williams, David Denis (English).
Williamson, Elizabeth Maclean (L. Latin).
Wilson, Isabella (French).
Wilson, James Calvert (Dynamics).
Woodburn, George Hoggan (English).
Yates, Sophie (L. Math., L. Latin).
Young, John (English, L. Math.).

April, 1893.

Adams, Alexander M'Clymont (English, L. Latin).
Addison, James (H. Math.).
Aikman, Andrew Niven (H. Math.).
Aitken, Alexander Kerr (H. Greek).
Aitken, Helen Johnston (L. Latin).
Aitken, James Jeffrey (H. Math., L. Latin, French).
Aitken, Mary Gardner (L. Latin).
Aitkenhead, James (English, H. Math.).
Allan, James (L. Latin, French).
Allan, Robert (English).
Anderson, Helen Liddell (L. Latin).
Andrew, James (English, L. Latin, Dynamics).
Armour, John Stuart (L. Math., L. Latin, French).
Armour, Thomas White (L. Math., L. Latin).
Aust, Frank (H. Math., Dynamics).
Baillie, Robert (English, H. Math., L. Latin).
Baine, Daniel Gibson (L. Latin, French).
Baird, James Cumnock (L. Latin, French).
Barbe, Adrien Espinasson (English).
Baxter, Andrew (L. Latin).
Baxter, William James (H. Math., H. Greek).
Begg, John (English, H. Latin).
Bell, Margaret Scott (L. Latin).
Bennett, Harold William (English, H. Math., Dynamics).
Bennett, William (H. Latin).
Berry, Arthur John (Dynamics).
Beveridge, James (Latin).
Bilsland, James (English, L. Latin).
Bilsland, Robert (French).
Bingham, Letitia (English, L. Latin).
Black, Archibald (English, H. Latin).
Black, James (L. Latin, French).
Blackwood, Helen Ormiston (L. Math.).
Blaikie, Margaret Campbell (L. Math.).
Bole, Sarah Jane (English).
Borthwick, Jessie Dougall (H. Math.).
Bow, Jean Wilson (H. Latin).
Brand, David Ernest (H. Math., H. Latin).
Brightman, John Henry (L. Latin).
Brown, Annie Dalgleish (French).
Brown, Isa Turner (L. Latin).
Brown, James Rossie (L. Math., L. Latin, L. Greek).
Brown, James Shaw (H. Latin, L. Greek).
Brownlee, Elizabeth Gibson (H. Math., L. Latin.).
Brownlie, John (H. Math.).

Bruce, Robert (L. Math.).
Bryce, William (L. Math.).
Buchan, John Moir (I. Math., H. Latin, French).
Buchan, William (I. Math., H. Latin).
Burnett, George (H. Math., L. Latin, French).
Burns, David (H. Math., L. Latin, French).
Calder, Andrew (L. Latin).
Caldwell, Peter Scott (H. Math., Dynamics).
Campbell, Catherine Hood (H. Math., L. Latin).
Campbell, George (H.) (L. Math., L. Latin).
Campbell, James Alexander (H. Math.).
Campbell, Malcolm George (L. Math., French).
Carmichael, Isabella (I. Math.).
Carrie, George Millar (I. Math., L. Latin).
Carson, Thomas Walker (H. Math., L. Latin).
Chapman, Frederick Critchett (L. Math.).
Clark, Donald James, (L. Latin).
Clark, Margaret Elizabeth (H. Math., H. Latin).
Collingwood, John Crawford (H. Latin).
Condie, Jane M'Intyre (H. Math.).
Congalton, William David (I. Math., L. Latin).
Connell, Kenneth M'Kenzie (I. Math., L. Latin, French).
Cook, John (H. Latin).
Cooper, William Stirton (English, L. Latin, French).
Corrie, Richard Clayton (English, H. Latin, H. Greek).
Coulter, James Love (H. Math., H. Latin, H. Greek).
Cowie, Peter Buchan Watson (L. Latin).
Craig, Robert William (English, I. Math., L. Latin).
Cram, Annie Gertrude (I. Math., L. Latin).
Cramond, John (H. Math.).
Cullen, Charles (H. Latin).
Currie, Mary Darroch (L. Latin).
Daly, Robert (English, H. Math., L. Latin).
Darling, Edward (H. Latin, French).
Darroch, John Alister (I. Math., Dynamics).
Davidson, Isabella (English).
Davidson Joseph (H. Latin).
Deans, Grace Martin Hunter (I. Math., H. Latin).
Dewar, Phebe Rutherford (English).
Dick, Jennie (H. Latin).
Dodds, James Smith (I. Math., L. Latin).
Donald, Andrew (H. Latin).
Donnelly, Helen (I. Math., L. Latin).
Dow, William (H. Math., L. Latin).
Downie, David (I. Math., L. Latin).
Drummond, William (H. Math.).
Dunne, Margaret (I. Math.).
Dyer, Marguerite Morton (H. Math., H. Latin).
Ellis, Thomas (French, Dynamics).
Erskine, Helen Orr (L. Latin).
Fenter, Susan Ethel (L. Latin).
Ferguson, John Thomson (L. Latin, L. Greek).
Ferguson, Mary Christie (I. Math., L. Latin).
Field, Catharina Frances Struthers (English, L. Math.).
Finlayson, Kenneth (H. Math., H. Latin).
Fleming, James Brown Montgomerie (L. Latin).

Forrest, Louise Margaret (H. Latin).
Forsyth, James Willison (English, H. Math., H. Latin, French).
Fotheringham, John Gillies (L. Math.).
Fowler, William (H. Math., L. Latin).
Fraser, George Sutherland (H. Math.).
Fraser, John (English, I. Math.).
Fraser, Kate M'Millan (H. Math., L. Latin).
Fraser, Robert (I. Math., French, Dynamics).
Galbraith, William Scott (L. Math.).
Gardiner, William Roberts (Dynamics).
Garvie, William (H. Math.).
George, Flora Graham (L. Latin).
Georgoussis, Philopemen (French, Dynamics).
Gerrard, Walter (English, L. Latin).
Gilbert, William John (L. Math.)
Gilchrist, Thomas (L. Latin, French).
Gillies, Norman M'Leod (I. Math.).
Gillies, William (English).
Gilmour, James (English, H. Math.).
Gilmour, Matthew (I. Math.).
Good, James (L. Latin).
Gordon, Albert William (English).
Gordon, James Alison (H. Latin.).
Gracie, Helen Letham (English).
Graham, Nigel Carlyle (English, L. Math., L. Latin).
Grahame, John Alexander (I. Math., L. Latin, L. Greek).
Grant, Mabel (L. Math.).
Grant, Robert (H. Latin).
Gray, Annie (H. Math.).
Gray, Margaret Muriel (H. Math.).
Gray, Stewart Dickson (L. Latin, L. Greek).
Greenlaw, Ebenezer Watt (H. Latin).
Grice, John Radcliffe (H. Latin).
Grier, James M'Farlane (H. Math., H. Latin).
Guy, Philip Langstaffe Ord (L. Math.).
Haddow, Alexander Harper (H. Math.).
Hair, David (I. Math.).
Hall, Catherine (H. Latin).
Halley, Matthew White (H. Math., Dynamics).
Hannay, Ethel Crichton (I. Math., H. Latin).
Harley, Margaret Allan (H. Latin).
Harper, Elizabeth Jane (I. Math.).
Harper, James (H. Latin).
Harvie, George (H. Math., French).
Henderson, Dora Selkirk (I. Math.).
Henderson, Minnie Inglis (I. Math., L. Latin).
Hepburn, Margaret (L. Latin.).
Hill, Edith Bertha (H. Math., L. Latin).
Hindmarsh, Margaret (L. Latin).
Hogg, James (H. Latin, H. Greek).
Hollis, Guy Denzil (English, H. Math., L. Latin).
Horne, David Henry Laing (H. Math., L. Latin).
Houston, James Blair (H. Latin, L. Greek).
Houston, Matthew Barr (English, I. Math., L. Latin).
Houston, Robert Campbell (English).
Hunt, Katharine Janet (H. Latin).

Hunter, George Anderson (Dynamics).
Hutchison, David Sandford (English).
Hutton, Mary Louise (L. Math., L. Latin).
Inglis, Helen (L. Latin).
Inglis, Robert (L. Latin).
Irvine, Alexander Hyndman (H. Latin).
Isdale, David (H. Math.).
Iwane, Tomochika (H. Math.)
Jack, Andrew (H. Math., Dynamics).
Jack, Archibald (H. Math., L. Latin).
Jackson, Isabella Mary (L. Latin).
Jackson, John (L. Math.).
Jeffrey, Frank (H. Latin).
Johnston, James (H. Math., Dynamics).
Johnston, William George (Ayr) (English).
Johnston, William George (Renton) (English, H. Math., H. Latin, L. Greek).
Jolly, Elizabeth Averill (H. Math., H. Latin.).
Keane, James (English, I. Math.).
Kennedy, David (L. Latin, French, Dynamics).
Kerr, John Alexander (H. Math., L. Latin).
Kinloch, Andrew Duncan (Dynamics).
Kirkpatrick, Isabella Cameron (English, L. Math., H. Latin).
Kirkwood, Effie Grace (H. Math., H. Latin).
Kivlichan, Agnes (H. Math., H. Latin).
Kivlichan, William (H. Math.).
Knowles, Isobel Alexander (L. Latin).
Laird, Andrew James Liddell (H. Latin).
Lamond, Janet (H. Math., L. Latin).
Lang, Mary Wilson (H. Math.).
Lang, Walter (English, H. Math.).
Lang, William Paterson (H. Latin).
Lees, Kate Muir (L. Latin).
Leggate, Robert (I. Math.).
Leiper, Eliza Boyd (L. Latin).
Leitch, Hugh Macdonald (English, I. Math., L. Latin).
Logan, Walter (H. Math.).
Lyon, Agnes Mary (H. Latin).
M'Adam, David (English, H. Math., H. Latin, French, Dynamics).
Macaskill, Margaret (English, L. Math.).
Macaulay, James Parker (H. Latin, French).
M'Bain, Elspeth Whyte (L. Latin).
M'Beath, John (English, L. Latin, L. Greek).
M'Bride, Mary Robertson (L. Latin).
Maccallum, Flora M'Phail (H. Latin).
M'Cartney, John (H. Math., H. Latin).
M'Coll, John (L. Latin).
M'Cracken, Alexander (English).
M'Cracken, Kate Campbell (English).
M'Cracken, Sarah (L. Latin).
M'Culloch, Mary Malcolm (H. Latin).
MacCulloch, William Stevenson (Dynamics).
M'Cusker, Gertrude (I. Math.).
M'Cusker, Margaret Mary (I. Math.).
Macdonald, Janet Sinclair (French).
Macdonald, John Finlay (H. Latin, French).

Macdonald, Margaret (L. Math., L. Latin).
M'Donald, Roderick Alexander (L. Latin).
MacDowall, Mary Henry (L. Math., L. Latin).
M'Elwain, James (L. Latin).
Macfarlane, George Gordon (H. Math., Dynamics).
Macfarlane, John (L. Latin).
M'Farlane, Margaret Conchie Raphael (L. Latin).
MacFarlane, Susan Niven (L. Latin).
M'Garva, Grace (English, L. Latin).
M'Geachin, Margaret Allen (L. Latin).
Macgill, Charles Dalrymple (L. Math.).
M'Gilp, Catherine Ferguson (L. Latin).
M'Gown, Janet Gilmour (L. Latin).
Macgregor, Annie Murray (German).
M'Gregor, John (English).
M'Gregor, Josiah Gilray (H. Math.).
M'Hardie, Thomas Richmond (English).
M'Harg, James Adam (H. Latin).
M'Hattie, John Reid (English, L. Latin).
M'Intosh, Robert Scott (L. Latin).
M'Intyre, William (English).
Mackay, Grace Christina (L. Latin).
M'Kay, Henry (Dynamics).
Mackay, Kenneth (Dynamics).
MacKeith, Grace Smith Sloan (L. Math., L. Latin).
Mackenzie, Alexander (English).
Mackenzie, Colin Young (L. Math.).
Mackenzie, Elizabeth Weir (English).
Mackenzie, John Gladstone (English, L. Latin).
M'Kerrow, John Armour (H. Math.).
Mackie, Janetta Inglis Wyllie (H. Latin).
M'Laren, Archibald (H. Latin).
M'Lean, Alexander (H. Greek).
MacLean, Alexander Cockburn (H. Latin).
Maclean, Benjamin (L. Latin).
M'Leish, Jessie Marjorie (L. Latin).
M'Leod, James Walter (English, L. Math.).
Macleod, Margaret M'Eachern (H. Math.).
M'Millan, Agnes Jack (H. Math., L. Latin).
M'Millan, Charles (English).
M'Millan, Malcolm (L. Latin).
M'Millan, Robert Kerr (H. Latin).
M'Nab, Robert M'Lay (English).
M'Neill, Florence Marian (H. Math.).
M'Nidder, Katherine Thomson (H. Math., H. Latin).
M'Onat, Mary Campbell Wyllie (H. Math.).
Macphail, Annie Mitchell (H. Latin).
MacPhail, Lachlan (L. Latin).
M'Pherson, Jenny (French).
Macphie, Donald (H. Latin).
Macready, Margaret Ferguson (L. Latin).
M'Vail, James Blair (L. Math.).
M'Whirter, Jeanie Douglas (H. Math.).
M'William, Jessie Stewart (English).
Main, James Hunter (L. Latin).
Martin, Annie (English).

Maxton, James (H. Latin, L. Greek, Dynamics).
Maxton, Jessie M'Nicol Purdon (H. Latin).
Maxwell, Robert Alexander Grant (English, Dynamics).
Mayer, Frederick Lewis (H. Math., French, Dynamics).
Meek, Charles Kingsley (H. Math., H. Latin, H. Greek, French).
Meek, David Burnett (L. Latin, French, Dynamics).
Millar, Alexander (L. Latin).
Miller, John (Motherwell) (L. Latin).
Miller, Moses (L. Latin).
Milne, George (H. Latin).
Milne, James Gray (L. Greek).
Mitchell, Helen Armour (H. Latin).
Mitchell, James Hendrie (H. Math.).
Montgomerie, Duncan M'Nicoll (I. Math., L. Latin).
Montgomerie, Jane Love (H. Math., L. Latin).
More, Margaret Battison (H. Math., L. Latin).
Morison, Elizabeth Gillies (H. Latin).
Morison, Winifred Dougall (I. Math., H. Latin).
Mowat, Alexander (English, H. Latin).
Moyes, Emily Alexandrina (H. Math., H. Latin).
Munro, Margaret (I. Math., L. Latin).
Munro, William Angus (H. Latin).
Murdoch, William Anderson (H. Latin, L. Greek).
Murray, George (English, H. Math., L. Latin, L. Greek, Dynamics).
Murray, George Workman (L. Latin).
Murray, Helen Downie (L. Latin).
Murray, Maggie (H. Math.).
Murray, Mary Weir (L. Latin).
Napier, Andrew Dunseath (H. Math., Dynamics).
Napier, James (English).
Nicholson, Andrew Irving (English).
O'Docherty, Frances (L. Math.).
O'Hare, Thomas Alphonsus (H. Math.).
O'Sullivan, Nora (L. Latin).
Oswald, Helen Johnston (L. Math., L. Latin).
Parker, John Hampden (English, H. Math., Dynamics).
Paterson, Donald (H. Latin).
Paton, Maud (H. Latin).
Patton, Donald (English, H. Math., L. Latin).
Peck, Guy Alexander (English, I. Math.).
Peden, James Mair (L. Latin).
Pritchard, Thomas Cuthbertson Leithead (English, Dynamics).
Proudfoot, Mary Stuart (I. Math., H. Latin).
Purves, George Thomson (English, I. Math., Dynamics).
Rae, James Barr (H. Math., Dynamics).
Rae, Samuel (L. Latin, French).
Rankin, Jessie Deans (L. Math., L. Latin).
Rankin, Nicol M'Nicoll (French).
Rankine, John (L. Latin).
Reid, John (Lochwinnoch) (English, H. Latin).
Reid, William (I. Math.).
Reid, William Kirkpatrick (L. Latin).
Riddell, Elizabeth (L. Latin).
Ritchie, James (H. Latin, French).
Ritchie, Robert (English).
Robertson, James (H. Math., L. Latin).

Robertson, Janet (L. Math., French).
Robertson, Stella (H. Math.).
Ross, Alexander David (L. Latin).
Ross, Peter Storm (H. Latin).
Ross, Robert Donald (L. Latin).
Roughead, Margaret (H. Math.).
Russell, Jessie Capie (H. Math., H. Latin).
Russell, John (I. Math.).
Russell, Thomas (L. Latin).
Scotland, Robert (English).
Scott, Charlotte Malcolm (H. Latin).
Scott, John Livingston (L. Latin).
Sexton, George Alexander (Dynamics).
Shanks, Eleanor Mary Barr (H. Math., H. Latin).
Shanks, Henry (English).
Simpson, John Donald Kenneth (L. Latin).
Simpson, Mary (L. Latin).
Sinclair, Annie Macadam (H. Latin).
Sinclair, Colin (English).
Sinclair, Donald (Dynamics).
Sinclair, John (H. Math.).
Sinton, Lucy (I. Math., L. Latin).
Slodre, Edmondo (H. Math., Italian).
Smellie, William Robert (English).
Smith, Jessie (L. Latin).
Smith, John (L. Latin).
Smith (Miss), Lesley (English).
Smith, William James (H. Math.).
Snedden, John (L. Latin, Dynamics).
Sneddon, Robert (L. Latin).
Spence, Isabella (L. Latin).
Sprunt, Janet (L. Latin).
Stalker, Catherine Ann (English, I. Math., L. Latin).
Stark, William (H. Math.).
Stephen, Jean Graham (H. Math.).
Steven, Alfred Ingram (Dynamics).
Stevenson, James (H. Latin).
Stevenson, William (English).
Stewart, Jane Boyd (L. Latin).
Stewart, Jean (H. Math., L. Latin).
Struthers, James (H. Math., H. Latin)
Struthers, James Barr (H. Latin).
Summers, John (I. Math., L. Latin, French).
Sutherland, Barbara (H. Latin).
Sutherland, Maggie Millen Jeffs (H. Math., French).
Taylor, Catherine Stuart (H. Math.).
Taylor, Charles Allison (Dynamics).
Taylor, David (H. Greek).
Taylor, Harriette Glen Lyon (French).
Taylor, John William (H. Latin, Dynamics).
Taylor, Margaret Oswald (L. Latin, French).
Taylor, Stuart Galloway (English, I. Math., L. Latin).
Taylor, William Galbraith (L. Math.).
Telfer, Margaret (L. Latin).
Telfer, Stephen Veitch (English).
Thomson, Agnes Cunninghame Petrie (H. Latin, French).

Thomson, Annie (Elgin) (H. Math., H. Latin).
Thomson, Elizabeth Burns (I. Math.).
Thomson, James (Airdrie) (L. Latin).
Thomson, John Frederick (H. Math., Dynamics).
Thomson, Lizzie Kay (English).
Thomson, Robert Percival (English).
Thomson, William Henderson (L. Latin, L. Greek).
Torrance, James (L. Math.).
Torrance, Percy Watt (H. Latin).
Tulloch, James Allan (L. Latin, Dynamics).
Tulloch, Robert (L. Latin).
Turner, Thomas Brown (H. Math., L. Latin).
Twiss, Percy Joseph (H. Math.).
Twist, Edith (H. Math., H. Latin).
Urquhart, Carment (H. Math., Dynamics).
Wallace, James Elliot (I. Math., H. Latin).
Walton, Andrew Kerr (H. Math., H. Latin, H. Greek).
Warrand, William Connal (Dynamics).
Waters, William (H. Math.).
Weir, Ralph Sommerville (H. Latin).
Westwater, James (L. Latin).
Whitbread, Walter Blois (H. Math., L. Latin).
Whyte, Margaret Douglas (I. Math.).
Williams, David Denis (H. Math., Dynamics).
Williamson, Annie Drummond (L. Latin).
Williamson, Edward Thomson (I. Math., L. Latin).
Wilson, Elizabeth Black (I. Math., L. Latin).
Wilson, James Calvert (Dynamics).
Wright, Alice Logan (I. Math., L. Latin).
Wright, John (English, L. Latin, French).
Wylie, Minnie Aitken (H. Math).
Yates, Sophie (English, L. Latin, French).
Young, Annie Muirhead (I. Math., L. Latin).
Yuille, William (L. Latin).

PRELIMINARY EXAMINATION FOR DEGREES IN MEDICINE.

The following passed in the subjects indicated :

October, 1902.

Anderson, William (English, Latin).
Bain, Margaret Watson (Math., French).
Baxter, Herbert Stewart (Latin, Math.).
Birkett, Florence Mabel (Math., French).
Blakely, John (English, Latin, Math., French).
Bow, Robert Rankin (French).
Boyd, John Lindsay (Math., Greek).
Breckenridge, Jessie Sutherland (English).
Brown, Robert (English).
Buss, Leonard Tafel (Latin, Math.).
Cameron, John (English).
Campbell, Thomas Hay (English, Latin, Math., French).
Coggans, James Joseph (Latin).
Cook, James (Latin, Math.).
Crowe, William Grant (Latin).
Darroch, Margaret Baird Sproul (French).

Duncan, Donald (English, Latin, Math., French).
Dunstone, Leonard John (French).
Ferguson, Peter Blair (Math.).
Ferguson, Thomas Baird (English).
Forrest, Margaret Gardner (Latin).
Forsyth, Thomas (English, Latin, Math., Greek).
Galbraith, James Barrie (English).
Galdemar, Leon (English, Latin, Math., French).
Gale, Berkeley (Latin, Math., German).
Gallagher, Florence Ann (French).
Gossman, Hugh M'Vicar (Math.).
Haddow, George (Math.).
Harbinson, Josiah (Latin, Math.).
Hogg, Archibald (Latin, German).
Hunter, Colin (Latin).
Hutton, Andrew James (Latin, French).
Johnston, Cochran (English).
Kennedy, Alexander Mills (English, Latin, French).
Kerr, Charles Lawson (Latin).
Kirk, Charles Joseph (English).
Knox, David Neilson (Math., French).
Livingstone, Hugh (English, Math.).
Lloyd, John Thomas (Math.).
M'Ardle, Daniel Conway (Latin).
M'Arthur John (Latin, French).
MacBain, Archibald Cowan (English).
M'Call, John (English).
M'Cowat, William Woodburn (English).
M'Curdie, William Stevenson (Math.).
M'Dougall, Alexander Campbell (English, Latin).
MacDougall, Donald (Latin, German).
M'Kendrick, William (Latin, French).
Mackie, William Campbell (English, Math., French).
Macleod, John Muat (French).
M'Naughtan, Donald Irvine (Latin, Math.).
M'Neill, Arthur Norman Roy (Latin).
Macpherson, Frederick Liddell (English, Latin, Math., French).
M'Vittie, John (English, Latin, Math., French).
Maben, Thomas Morison (Math.).
Mann, John Kennedy (Math.).
Mathieson, David Rogerson (Latin).
Muir, William Aikman (English, Latin).
Murray, Thomas Jenkins (English, German).
Newbigging, David Robertson (English).
Nurick, Max (English, Latin, Math., French).
Papiermeister, Bernhard (Hebrew).
Paterson, Hugh (Latin).
Purvis, Murray (English, Latin, Math., French).
Quigley, Edward (English, French).
Robertshaw, Benjamin (English, Latin, Math., French).
Robertson, John (Latin, Greek).
Robertson, Olive (Math.).
Rose, Jeannie Peden (Latin).
Ross, Alexander Forbes (English, Latin, Math., French).
Ross, Thomas David Coulthard (Latin).
Scott, George Waugh (Latin, French).

Scott, Neil (French).
Sexton, Florence Elizabeth (Math.).
Sim, James Brown (English).
Sinclair, James David Speed (Latin).
Steele, Andrew William Milne (English, Latin, Math., French).
Stevenson, Campbell Kay (English, Latin, Math., Greek).
Stewart, Edward Ernest (Math.).
Storey, Lawrence (English, Latin, Math., Greek).
Taylor, James (English, Math.).
Taylor, John Martin (Latin).
Telfer, Walter (English, Latin).
Tolmie, Peter Morrison (English).
Wagner, Charles Herrman (Math.).
Walker, Lindsay (Latin).
Wallace, Jemima (English).
Ward, Marcelline (Latin, French).
Waterhouse, William Samuel (Latin).
Whitelaw, Thomas (French).
Whittingham, William Crowley (English, Latin, Math., French).
Williamson, Charles Percival (French).
Wilson, David M'Gruther (English, French).
Wilson, George (English).
Wright, Jeanie Bell (French).
Young, Hugh (English, Latin).
Young, John (Math., French).

April, 1903.

Anderson, James George (French).
Anderson, William (Math., Greek).
Arbuckle, David (English, Math.).
Archibald, Thomas (English, Math.).
Arkieson, Charles (Math., Greek).
Auchencloss, James Currie (English, Latin, Math., French).
Bain, Margaret Watson (English).
Baxter, Herbert Stewart (English).
Beilby, Winifred Moller (English, French).
Blair, James M'Lagan (Latin).
Blake, Edward James Netterville (English).
Bow, Robert Rankin (Latin, French).
Boyd, John Lindsay (English, Latin).
Bradford, Annie Boyd (English, Math., French).
Bridge, Solomon David (Latin, Greek).
Brown, James Patrick (English).
Bruce, James (English).
Calder, Hector M'Kay (Latin, Math., French).
Cameron, Andrew James (English).
Cameron, John (English).
Campbell, John Archibald (English).
Carroll, Francis (English, Math., French).
Cochrane, James Lang (English, Math.).
Cook, James (Coalburn), (Math., French).
Cook, James (Partick), (English, French).
Cousens, Gordon Bruce Seymour (Math.).
Craig, Margaret Wilson (English).
Crocket, James (Math.).

Cruickshank, John (Latin).
Cullen, William (English).
Darroch, Margaret Baird Sproul (Latin, Math.).
Enoch, William Crinan (Math.).
Fidler, Philip (Latin, French).
Forsyth, William Leonard (Math.).
Galbraith, James Barrie (Math.).
Gallagher, Florence Anne (French).
Gardiner, Norman (Math.).
Gillespie, John (English).
Gordon, George Stevenson (English, Math.).
Gray, Margaret Wilson (English, Math.).
Gray, Thomas Elphinstone (Math., French).
Greenlees, John Thomas (Latin).
Hadlow, George (English, French).
Harbinson, John (Math.).
Hay, Euphemia Adamson (French).
Hislop, James Hall (English, Latin, Math., German).
Hodgkinson, Isaiah (English, French).
Howat, William Hunter (English, French).
Inglis, William Smith (Math.).
Johnstone, William (English).
Kerr, Honoria Somerville (English, Latin, Math., French).
Kinloch, John Parlane (English, Latin, Math., French).
Kirk, Charles Joseph (French).
Knox, David Neilson (English).
Livingston, George Smith (English, French).
Macartney, William Charles (English, Latin).
M'Callum, Hugh (English, Math., Greek).
M'Carlie, Robert (Latin, French).
M'Combie, Annette Stewart (English, Latin, Math.).
M'Connell, William (English, Math., German).
MacDougall, Donald (English).
Macewen, William (English).
Mackay, Alexander (Latin).
M'Kenzie, Donald Robert (English, Math.).
Mackichan, Francis William (English, Latin, Math., French).
Mackie, William Campbell (Latin).
M'Kinnon, Alexander (Math.).
M'Kinven, Angus Keith (English, Latin, Math., French).
M'Lay, Frank Watt Ballantyne (Math., French).
Macmillan, Campbell (English, French).
Macrae, John (English).
Mann, John Kennedy (Math.).
Marriott, William Aubrey Layard (English, Latin, Math., French).
Marsh, Frank Needham (English, Latin, Math., French).
Martin, Francis William (Latin, French).
Meek, Donald (English, Latin, French).
Michael, Frederick William (English, Latin, Math., French).
Middlemiss, Kenneth (English, Math.).
Mitchell, John (English, Math.).
Mitchell, Mary Cochrane (English, Math., French).
Morton, John William (English, French).
Mowat, John (Math., French).
Muir, William Aikman (Math., French).
Munn, John Swan (English, Math.).

Murchie, Findlay (English).
Murison, Charles Sutherland M'Kay (English, Latin, Math., French).
Murray, Charles Allison (Latin, French).
Newbigging, David Robertson (Math.).
Noble, Watson (Latin, French).
Papiermeister, Bernhard (English, Hebrew).
Paterson, Hugh (Latin, French).
Petrie, James Mudie (English, Latin, Math., French).
Quigley, Edward (Latin, Math.).
Riddell, Hugh Young (French).
Robertson, John Bishop (English, Math.).
Rose, Jeannie Peden (Latin, Math.).
Russell, Gordon (French).
Rutherford, William (English, Math.).
Sanderson, John (English).
Semple, Allan (Latin, French).
Sewell, William Alexander (English, Latin).
Sexton, Florence Elizabeth (Math.).
Sim, James Brown (English, Latin, Math., French).
Slorach, James William (English).
Steven, Roderick Alexander (French).
Stewart, Peter M'Arthur (English, Latin, Math., French).
Storrie, Hugh Cochrane (English, Latin, Math., French).
Taylor, William (English, Math., French).
Thomson, John Thorburn (English).
Torrance, William Teulon (English).
Twiss, Josiah Oliver (English, Math.).
Ure, James Lachlan (Latin, Math.).
Wagner, Charles Herrman (English, Math., French).
Walker, John Cuthbertson (Math.).
Wallace, Jemima (English).
Waterhouse, William Samuel (English, Math., French).
Whitfield, James Brown (English).
Williamson, Charles Percival (Latin, French).
Wilson, David M'Gruther (English, Latin, Math., French).
Wilson, George Jackson (Math.).
Wilson, Ralph Cunningham (English).
Wilson, William Long (English, Math.).
Worley, Annie Stein (English, Latin, Math., French).
Wright, Jeanie Bell (French).
Yates, Tom (Math.).
Young, Hugh (Math., Greek).
Young, John (Latin, Math., French).

BURSARY EXAMINATION.

October, 1902.

The figure (2) denotes students of the second year.

The following are the first fifty names in the order of merit, viz. :

1. John C. Rollo, Whitehill Public School, Glasgow.
2. Albert F. L. Brayne (2), Royal Academy, Irvine.
3. John M'Whan, Whitehill Public School, Glasgow.
4. Alexander C. Grant, Hillhead High School, Glasgow.
5. William M. Ogilvy, Hutchesons' Grammar School, Glasgow.

6. Thomas Miller, Hutchesons' Grammar School, Glasgow.
7. Agnes M. Marshall, Girls' High School, Garnethill, Glasgow.
8. Leonard J. Russell, Hutchesons' Grammar School, Glasgow.
9. James C. M. Fairlie, Grammar School, Paisley, and Fettes College.
10. Marion W. Rankin, Girls' High School, Garnethill, Glasgow.
11. Adam W. Burnet, High School, Glasgow.
12. John H. Maxwell, Grammar School, Paisley.
13. James M'Kelvie, High School, Glasgow.
14. Gilbert P. Hogg (2), High School, Glasgow.
15. James D. Paterson, Greenock Academy.
16. James M. Barclay (2), Spier's School, Beith.
17. Murray Macgregor, Queen's Park Public School, and High School, Glasgow.
18. William D. Macgill (2), Royal Academy, Irvine.
19. William M'Kelvie, High School, Glasgow.
20. Charles M'Neil, High School, Glasgow.
21. Ian D. Neilson, Greenock Academy.
22. David T. Leggat, Kilmarnock Academy.
23. James Carmichael, Grammar School, Campbeltown.
24. Francis M. Smith, High School, Glasgow.
25. Euphemia W. Sutherland, Riebeek College, Uitenhage, Cape Colony.
26. David Manson, Hutchesons' Grammar School, Glasgow.
27. William Scott (Stonehouse) (2), Pupil Teachers' Institute, Glasgow.
28. William M'Adam (2), Hermitage School, Helensburgh.
29. William G. Waddell, Uddingston Grammar School.
30. Neil Conley (2), Grammar School, Campbeltown.
31. John C. Bell, Dumfries Academy.
32. Alexander Anderson, Hamilton Academy.
33. James C. Burton, High School, Glasgow.
34. Margaret H. Pearson, Park School, Glasgow.
35. George R. Herbertson, Glasgow Academy.
36. Ralph M. F. Picken, Allan Glen's School, Glasgow.
37. Grace Macdougall (2), High School, Oban.
38. William S. Stewart (2), Perth Academy.
39. James S. MacGillivray, Greenock Academy.
40. George R. Robertson, Royal Academy, Inverness.
41. Matthew Biggar (2), High School, Falkirk.
42. Henry G. B. Spens, Glasgow Academy.
43. David H. Battersby, Hutchesons' Grammar School, Glasgow.
44. Alexander D. Hutcheon, Peterhead Academy.
45. Christina B. Watson, Hutchesons' Girls' School, and Pupil Teachers' Institute, Govan.
46. James Williamson, Pupil Teachers' Institute, Glasgow.
47. Robert M. Grant (2), High School, Glasgow.
48. Annie Thomson (Glasgow), Hutchesons' Girls' School, Glasgow.
49. James Paul, Pupil Teachers' Institute, Glasgow.
50. Andrew Clark, Wishaw Public School.

UNIVERSITY PRIZES.

I.—FOR ESSAYS.

In MENTAL PHILOSOPHY, the UNIVERSITY SILVER MEDAL, for the best Essay on "The Ethics of International Relations."

Robert Robertson Rusk, Ayr.

TWO EWING GOLD MEDALS, for the best Essays on "James, Marquis of Montrose."

William Tod Ritchie, Beith, and Elias Henry Jones, Glasgow.

A COULTER PRIZE OF FIVE POUNDS, for the best Essay on "Agathon: a Study of the Surviving Fragments and an Estimate of his Place in Greek Literature."

Archibald Allan Bowman, Beith.

TWO HENDERSON PRIZES OF TWENTY GUINEAS each, for the best Essays giving a "Critical Examination and Estimate of Butler's *Analogy of Religion.*"

John Scoular Thomson, M.A., Kingarth, Bute, and
Harold Charles Rowse, Derby.

II.—FOR EXAMINATIONS.

An ARNOTT PRIZE of £15, for an Examination in General Physics, open to Students of the first and second years of their Medical Studies.

John Anderson, M.A., Galston.

An ARNOTT PRIZE of £25, for an Examination in Physiological Physics, open to Students of the third and fourth years of their Medical Studies.

William Blair Morton Martin, Glasgow.

The FINDLATER SCHOLARSHIP PRIZE, value £38, for Examination in the subjects for the Degree of B.D.

John Thomas Arnott, M.A., Kinloch, Blairgowrie.

The JAMIESON PRIZE, value £10, for Examination in the subjects for the Degree of B.D.

Brodie Smith Gilfillan, M.A., Lochwinnoch.

The MACFARLAN AND COOK TESTIMONIAL PRIZE of £21, open to Theological Students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

John Thomas Arnott, M.A., Kinloch, Blairgowrie.

The LUKE HISTORICAL PRIZE of £9, for the best Examination in Ancient Greek and Roman History.

Charles Gilbert Nelson, Girvan.

The GLADSTONE MEMORIAL PRIZE of Books to the value of £5, open to those who have taken the Degree of M.A. with Honours, or who presented themselves in October, 1902, for Examination for the Degree of M.A. with Honours in Economic Science.

John Macdonald Richardson, M.A., Stirling.

The THOMAS LOGAN MEMORIAL MEDAL AND PRIZE of £12, to the Graduate in Arts of the year (1902) with the Highest Marks in the Degree Examinations.

William Lindsay Thompson, M.A., with First-Class Honours in Mathematics and Natural Philosophy, and Second-Class Honours in Classics.

The BRUNTON MEMORIAL PRIZE of £10, to the most distinguished Graduate in Medicine of the year (1902).

Andrew Miller Kerr, Glasgow.

III.—FOR THESES.

BELLAHOUSTON GOLD MEDALS for Eminent Merit in Theses for M.D. (alphabetically arranged):

Alexander Robert Ferguson, M.D.
George Lamb, M.D.
William Glen Liston, M.D.

CLASS PRIZES.

Faculty of Theology.

DIVINITY.

PROFESSOR WILLIAM HASTIE, D.D.

SENIOR CLASS.

I. Students of the Third Year :

1. { Norman R. Mitchell, M.A., Beauly (Cleland and Rae-Wilson Gold Medal).
   Peter G. Smith, M.A., Stonehouse (Dickson Prize).

3. Archibald Main, M.A., Partick.

4. { John T. Arnott, M.A., Kinloch, Blairgowrie.
   William A. Gillies, M.A., Sleat, Skye.
   Alexander Williamson, M.A., Grangemouth.

Honourable Mention :—Matthew Babington, M.A., Kilwinning ; Brodie S. Gilfillan, M.A., Lochwinnoch ; William M. Tait, M.A., Saltcoats.

Dowanhill Prizes of £20 each for Elocution :

William A. Gillies, M.A., Sleat, Skye, }
John M. Pryde, M.A., Caldercruix, Airdrie, } Equal.

II. Students of the Second Year :

1. George Muir, M.A., Dunoon.
2. Thomas Low, M.A., Peebles.
3. Eric J. Roberts, M.A., Upper Norwood.
4. { William W. Clark, Larkhall.
   Hector MacLean, M.A., Tiree.

Honourable Mention :—Augustine W. S. Forbes, M.A., Glasgow ; William Lindsay, M.A., Coatbridge.

JUNIOR CLASS.

1. John S. Robertson, M.A., Glasgow.
2. Robert Alexander, M.A., Ayr.
3. John M. Hamilton, M.A., Alexandria.

   John R. Spence, M.A., Shettleston (Special Prize).

Honourable Mention :—William H. Coats, M.A., Glasgow ; Humphrey Chalmers, M.A., Rosneath ; Frank W. Saunders, M.A., Kingarth, Bute.

DIVINITY AND BIBLICAL CRITICISM.

PROFESSOR WILLIAM STEWART, D.D.

I. FOR EXAMINATIONS :—

SENIOR DIVISION.

1. Norman R. Mitchell, M.A., Beauly (Cleland and Rae-Wilson Gold Medal).
2. John T. Arnott, M.A., Kinloch, Blairgowrie.
3. Brodie S. Gilfillan, M.A., Lochwinnoch.
4. William A. Gillies, M.A., Sleat, Skye.

Next in Order of Merit—Alexander Williamson, M.A., Grangemouth ; Kenneth O. Macleod, M.A., Glasgow ; Peter G. Smith, M.A., Stonehouse ; William M. Tait, M.A., Saltcoats.

JUNIOR DIVISION.

1. Augustine W. S. Forbes, M.A., Glasgow.
2. Archibald Main, M.A., Partick.
3. Thomas Low, M.A., Peebles.

Next in Order of Merit—Eric J. Roberts, M.A., Upper Norwood; George Muir, M.A., Dunoon; James G. MacDonald, M.A., Motherwell; William N. Monteith, B.A., Glencairn.

II. For Exercises:

1. { Thomas Low, M.A., Peebles.
   { Eric J. Roberts, M.A., Upper Norwood.
2. William W. Clark, Larkhall.

Next in Order of Merit—John T. Arnott, M.A., Kinloch, Blairgowrie; William H. Coats, M.A., Glasgow; Duncan MacArthur, Kilchoman, Argyllshire.

HEBREW AND ORIENTAL LANGUAGES.

Professor James Robertson, D.D.

I. Senior Hebrew Class.

Third Year—Thomas Low, M.A., Peebles.

ORDINARY CLASS.

1. George Muir, M.A., Dunoon (Cleland and Rae-Wilson Gold Medal).
2. James G. MacDonald, M.A., Motherwell.
3. Alexander H. Harley, M.A., Hamilton.
4. James R. Buchanan, Paisley.
5. Robert A. C. Macmillan, Ullapool.
6. James Baird, Stevenston.

Next in Order of Merit—William N. Monteith, B.A., Glencairn; Eric J. Roberts, M.A., Upper Norwood.

II. Junior Hebrew Class.

1. John S. Robertson, M.A., Glasgow.
2. John M. Hamilton, M.A., Alexandria.
3. John R. Spence, M.A., Lochwinnoch.

III. Special Prizes.

Written Exercises—James G. MacDonald, M.A., Motherwell.

Summer Reading—James G. MacDonald, M.A., Motherwell.

Original Composition—Robert A. C. Macmillan, Ullapool.

Repetition of Selected Chapters—A. W. S. Forbes, M.A., Glasgow; Hector MacLean, M.A., Tiree; William N. Monteith, B.A., Glencairn; Robert A. C. Macmillan, Ullapool.

IV. Arabic Classes.

NINE O'CLOCK CLASS.

John T. Arnott, M.A., Kinloch, Blairgowrie.
Norman R. Mitchell, M.A., Beauly.

TWELVE O'CLOCK CLASS.

Robert Baillie Douglas, B.D., Glasgow.
Alexander H. Harley, M.A., Hamilton.
George Muir, M.A., Dunoon.

Summer Session, 1902.

Preparatory Hebrew.

James R. Buchanan.
Alexander M. M'Iver, M.A.
Thomas Neilson, M.A.

Arabic.

William Rollo, M.A.
Andrew Macfarlane, B.D.

Syriac.

John Young, B.D.
James G. MacDonald, M.A.

CHURCH HISTORY.

Professor James Cooper, D.D.

I. junior class.

1. John R. Spence, M.A., Lochwinnoch.
2. Robert Alexander, M.A., Ayr.
3. Gordon Quig, Glasgow.

Subsequent Order—James Young, B.A., Dublin; John S. Robertson, M.A., Glasgow; Humphrey Chalmers, M.A., Rosneath; Frank W. Saunders, M.A., Kingarth, Bute.

Special Prize. (For Essay.)

Humphrey Chalmers, M.A., Rosneath.

II. senior class.

1. John T. Arnott, M.A., Kinloch, Blairgowrie (Cleland and Rae-Wilson Gold Medal).
2. William A. Gillies, M.A., Sleat, Skye.
3. Norman R. Mitchell, M.A., Beauly.
4. Brodie S. Gilfillan, M.A., Lochwinnoch, Archibald Main, M.A., Partick, } Equal.

Subsequent Order—Peter G. Smith, M.A., Stonehouse; Kenneth O. Macleod, M.A., Glasgow; William M. Tait, M.A., Saltcoats; Alexander Williamson, M.A., Grangemouth.

Special Prizes. (For Essays.)

1. William A. Gillies, M.A., Sleat, Skye.
2. John M. Pryde, M.A., Caldercruix, Airdrie.

Faculty of Law.

SCOTS LAW.

Professor Alexander Moody Stuart, LL.D.

I. For Eminence in Class Examinations:—

1. *Andrew Shearer (Robert Ross Prize).
2. *Cosmo A. Ralston.
3. *John Mair, M.A.
4. *Thomas G. Robertson, M.A.
5. *Alexander Y. Robertson.
6. Daniel Gardner.

7. John C. Brechin, M.A.
8. { Finlay Morrison, / James M. Reid, } Equal.
10. Charles Murray.
11. William S. W. Main.
12. James W. Buchan, M.A.
13. Charles M. Haddow.

II. For Eminence in Examination for Prizes given by the Faculty of Procurators in Glasgow.

1. *Andrew Shearer.
2. *Cosmo A. Ralston.
3. { *Finlay Morrison, / *Alexander Y. Robertson, } Equal.
5. { *Daniel Gardner, / *Thomas G. Robertson, M.A., } Equal.
7. John Mair, M.A.

The * denotes the Prizemen.

CONVEYANCING.

PROFESSOR JAMES MOIR, LL.D.

Prizemen.

1. David Higgins, Irvine (Robert Ross Prize).
2. Douglas Alexander Bannatyne, B.A., Glasgow.
3. Robert Fyfe M'Math, Forfar.
4. James Adamson Smart, Forfar.

Special Mention.

5. John M'Fadzean, Troon.

Eminently Distinguished.

6. Alexander Borthwick Mackay, M.A., Annan.
7. { Hamilton Crawford, M.A., Paisley. / James Austin, M.A., Glasgow.
9. Archibald Stewart, Campbeltown.
10. { John Dalrymple Johnston, M.A., Glasgow. / James Nesmith, Port-Glasgow.
12. David Hetherington, Leven, Fife.
13. Digby Seymour Brown, Port-Glasgow.
14. Roderick Macdonald Nicol, M.A., Benbecula, South Uist.
15. John Waterhouse M'Coll, Glasgow.

Examination for Prizes given by the Faculty of Procurators in Glasgow.

Prizemen.

1. James Adamson Smart, Forfar.
2. John M'Fadzean, Troon.
3. Archibald Stewart, Campbeltown.

Eminently Distinguished.

4. James Austin, M.A., Glasgow.
5. David Higgins, Irvine.
6. Robert Fyfe M'Math, Forfar.
7. Alexander Borthwick Mackay, M.A., Annan.
8. James Nesmith, Port-Glasgow.

CIVIL (OR ROMAN) LAW.

Lecturer—James M. Irvine, M.A., B.Sc., LL.B., Advocate.

1. *Morton, M. Muir.
   *James E. Scott.
3. *John Whitelaw.
4. *James S. Rankin.
5. Walter Hubbard.
6. Duncan M'Laren.
7. Thomas T. Cullen.
   John M. Cuthbertson.
9. David B. Mungo, M.A.
   Richard Murray.
11. Archibald Crawford, M.A.
   Seymour Graham.
13. Thomas K. Cook.
14. Alexander Brown.
   Andrew M'Shee.
16. William Brown.
   John C. Mortimer.

The * denotes the Prizemen.

PUBLIC INTERNATIONAL LAW.

Lecturer—William Galbraith Miller, M.A., LL.B., Advocate.

For eminence in the voluntary written exercises and class examinations :—

1. Theodore D. Lowe, M.A., Glasgow.
2. Thomas G. Robertson, M.A., Glasgow.

INTERNATIONAL PRIVATE LAW.

Summer Session, 1902.

Lecturer—William Galbraith Miller, M.A., LL.B., Advocate.

First-Class Honours and Prizes.

1. Roderick M. Nicol, M.A., Glasgow.
2. Hamilton Crawford, M.A., Paisley.

Second-Class Honours.

3. George Wilkie, M.A., Leven.
4. Archibald Stewart, Campbeltown.

JURISPRUDENCE.

Lecturer—William Galbraith Miller, M.A., LL.B., Advocate.

For eminence in the voluntary written exercises and class examinations :—

First-Class Honours.

1. Roderick M. Nicol, M.A., Benbecula, South Uist (Prizeman).
2. Theodore D. Lowe, M.A., Glasgow.

CONSTITUTIONAL LAW AND HISTORY.

Lecturer—William S. M'Kechnie, LL.B., D.Phil.

Honours Class.

Margaret T. Robertson, M.A. (Prize).

Ordinary Class.

1. William Strachan (First Prize).
2. Sydney M. MacEwen,
   George Wilkie, M.A., (Second Prize), Equal.
4. Robert Burns.
5. Archibald Crawford, M.A.
6. Alice H. Macalpine.
7. James H. Marr.

MERCANTILE LAW.

LECTURER—WILLIAM SHAW.

Prizes.

1. Norman A. Black, M.A.
2. Douglas Jamieson.
3. Robert Kerr.

Highly Distinguished.

John F. Sibbald.
Norman G. Chambers.
William Roy, M.A.
Allan Jenkins.
William R. Simpson.
Lachlan S. Maclachlan.
Joseph Allison.
Alfred N. Easton.

FORENSIC MEDICINE.

PROFESSOR JOHN GLAISTER, M.D., D.Ph. (Camb.), F.R.S.E.

Medallists—John C. Brechin, M.A.,
George Wilkie, M.A., } Equal.

First-Class Certificates.

Alexander B. Mackay, M.A.
John Mair, M.A.

Second-Class Certificates.

Douglas A. Bannatyne, B.A.
Charles F. Denholm.
Thomas B. Cameron, M.A.

Faculty of Medicine.

MEDALS AND CERTIFICATES OF MERIT.

SURGERY.

PROFESSOR SIR WILLIAM MACEWEN, M.D., LL.D., F.R.S.

SENIOR DIVISION.

Medallists—Alexander Matheson, M.A., B.Sc.
Spencer Mort. } Equal.

First-Class Certificates (in order of merit).

Peter L. Sutherland,
William G. Shand, } Equal.
Samuel C. Cowan.
John W. Sutherland.
John Hanson, M.A.
Andrew Connal.

Commended.

William T. Bolton.
John B. Stevenson. } Equal.
Donald Macaulay,
Joseph Walker, M.A.,
Thomas Ballantyne, } Equal.

JUNIOR DIVISION.

Medallist—Thomas Lovett.

First-Class Certificates (in order of merit).

James Porter.
Andrew M. Pollock.
Andrew B. Aitken,
Robert B. Carslaw, M.A.,
Tom D. M'Ewan, } Equal.
David Blackley,
John M'Farlane, } Equal.
Charles Brown,
Leslie C. B. Head,
William Templeton,
James W. Thomson, } Equal.

Commended.

Robert Macfarlane,
Donald R. Reid,
Robert M. Wilson, Equal.
Henry G. Anderson.
Charles M. Drew, M.A.,
James M'Houl,
Andrew Meek, Equal.

Forrest Brechin,
John Graham,
Thomas S. Macaulay,
Duncan Macfadyen, Equal.

OPERATIVE SURGERY.

Professor Sir William Macewen, M.D., LL.D., F.R.S.

Summer Session, 1902.

1. Medallist—John Morison.

First-Class Certificates (in order of merit).

2. Alex. Matheson, M.A., B.Sc.
3. John Stevenson.
4. John Guthrie.
5. John Brown,
George R. Jeffrey,
Joseph P. Lusk, Equal.

Commended.

1. Peter Millar,
Andrew M. Kerr,
Ernest D. Jackson, Equal.

2. Thomas Richmond,
Archibald Leitch,
John M. Gordon,
Alexander B. Watt, Equal.

CLINICAL SURGERY.

Professor Sir William Macewen, M.D., LL.D., F.R.S.

Summer Session, 1902.

First-class Certificates.

John B. D. Hunter.
Alexander Macintyre.
William N. W. Watson.

Commended.

John M. Reid.
Robert D. Kennedy.
Spencer Mort.
Ivy M'Kenzie, M.A., B.Sc.

Winter Session, 1902-3.

Clinical Registrar—Alexander Matheson, M.A., B.Sc.

Senior Division.

Medallists—Arthur W. Sutherland, M.A.,
Malcolm Hutton, M.A., B.Sc., Equal.

First-class Certificates (in order of merit).

Andrew Connal.
Robert Adam,
Spencer Mort,
William Rankin, M.A.,
John W. Sutherland,
George Wilson, Equal.

Commended.

James R. S. Anderson,
Alexander Jamieson,
Robert C. J. Schlomka,
John B. Stevenson,
Equal.

JUNIOR DIVISION.

Medallist—James M'Houl.

First-Class Certificates (in order of merit).

David L. Graham.
Donald C. M'Cormick,
James B. M'Ewan,
Donald R. Reid,
Equal.

Commended.

William B. M. Martin.
George G. Smith, B.Sc.
James R. Kerr,
Duncan Macfadyen,
Donald J. G. Grant,
George M. Gray,
Equal.

CLINICAL SURGERY.

PROFESSOR SIR HECTOR C. CAMERON, M.D.

Summer Session, 1902.

Medallist—William Templeton.

Certificates of Merit.

Dugald H. Macphail.
James M. Renton.
John B. Stevenson.
Robert T. Wells, M.A.
William Rolland.
Arnold H. Gray.

Winter Session, 1902-3.

Medal—Arnold H. Gray.

Certificates of Merit.

Peter Mitchell, M.A.
James D. Kidd.
Thomas Thom.
John R. M'Gilvray.

PRACTICE OF MEDICINE.

PROFESSOR THOMAS M'CALL ANDERSON, M.D.

SENIORS.

Gairdner Medal—Peter L. Sutherland.

First-class Certificates (in order of Merit).

John M. Kelly.
Samuel C. Cowan.
William D. H. Stevenson, M.A.
Joseph Walker, M.A.

JUNIORS.

Medal—Thomas Orr.

First-class Certificates (in order of Merit).

William Templeton.
Arthur Innes.
Thomas S. Macaulay.
William B. M. Martin.

CLINICAL MEDICINE.

Professor Thomas M'Call Anderson, M.D.

Summer Session, 1902.

SENIORS.

First-class Certificates (in order of Merit).

1. Donald Douglas, M.A.
2. Richard Makins.
3. James Russell.
4. John B. Stewart.
5. Thomas I. Wallace.
6. William W. George, John W. Smith, } Equal.

JUNIORS.

1. Norman A. Macleod.
2. John M'Farlane.
3. James Hunter, Thomas Orr, } Equal.
4. George A. Allan.

Winter Session, 1902-3.

SENIORS.

Medal—John M'Farlane.

First-class Certificates (in order of Merit).

Thomas Ballantyne.
James Porter.
Robert Bryson.
Alexander A. Carruthers.

JUNIORS.

Medal—James Hunter.

First-class Certificates (in order of Merit).

George A. Allan.
William L. Walker, M.A.
Thomas Orr.

CLINICAL MEDICINE.

Professor Samson Gemmell, M.D.

Summer Session, 1902.

First-class Certificates (in order of Merit).

SENIORS.

John Hanson, M.A.
Malcolm Hutton, M.A., B.Sc.
Stanley E. Lewis.
William F. Kay.
John Stevenson.
David Blackley.

JUNIORS.

James A. Cowie, B.A., B.Sc.
Thomas Rankine.
Hugh C. Davies.

Winter Session, 1902-3.

SENIOR DIVISION.

Cunison C. Finlator (Medallist).

First-class Certificates (in order of Merit).

James Wilson.
John Brown, David Blackley, William G. Shand, } Equal.
David Dickie.
David G. Dykes.
Peter L. Sutherland.

JUNIOR DIVISION.

John S. Dunn, M.A. (Medallist).

First-class Certificates (in order of Merit).

Tom D. M'Ewan.
Forrest Brechin.
James W. Thomson.

MIDWIFERY.

PROFESSOR MURDOCH CAMERON, M.D.

Medallist—John Hanson, M.A.

First-class Certificates (alphabetically arranged).

David Blackley.
Carl H. Browning.
Andrew Connal.
James A. Cowie, B.A., B.Sc.
Donald J. G. Grant
Leslie C. B. Head.
John M. Kelly.
John B. Morton.
William D. H. Stevenson, M.A.

Second-class Certificates (alphabetically arranged).

Robert Adam.
John W. Arthur.
Thomas Bennett, M.A.
Peter Carrick, M.A.
Hugh C. Davies.
Thomas W. Love.
Tom D. M'Ewan.
John M'Farlane.
Duncan Macfadyen.
Alexander S. M. Macgregor.
Andrew M. Pollock.
Daniel F. Riddell, M.A.
George G. Smith, B.Sc.
John B. Stevenson.

DISEASES OF WOMEN.

PROFESSOR MURDOCH CAMERON, M.D.

Summer Session, 1902.

Medallist—Alex. A. MacFarlane.

First-class Certificates (alphabetically arranged).

Alex. G. Banks.
Angus Campbell.
Ernest D. Jackson.
Andrew M. Kerr.
William A. Milne.
John Morison.
John M. Reid.
Thomas Richmond.
David Riddell.
Alex. B. Watt.
Joseph White, M.A., B.Sc.

Second-class Certificates (alphabetically arranged).

John S. Dale.
Hugh C. Davies.
William W. George.
John Hanson, M.A.
Thomas W. Love.
Alexander Macintyre.
Ivy M'Kenzie, M.A., B.Sc.
John C. M'Kenzie.
Alexander M. M'Millan.
Richard Makins.
Alexander J. Mitchell.
James Monie.
James S. Nicolson.
James Russell.
John Stevenson.
Arthur W. Sutherland, M.A.
William W. Turner.
Griffith J. Williams.

INSANITY.

LECTURER—DAVID YELLOWLEES, M.D., LL.D.

Summer Session, 1902.

1. Mackintosh Bursary—

James R. S. Anderson, } Equal.
Peter L. Sutherland, }

First-class Certificates.

Mary L. M‘Neill.
William G. Shand.
Jeanie Auld.
Kate Fraser, B.Sc.
Andrew Meek.
Thomas Lovett.

Second-class Certificates.

Jessie G. Duncan.
George C. Nielson.
Arthur Innes.
William D. H. Stevenson, M.A.
John B. Stevenson.
Robert D. Kennedy.
Alex. Matheson, M.A., B.Sc.

DISEASES OF THE EAR.

Lecturer—Thomas Barr, M.D.

Summer Session, 1902.

Prizes.

Alex. Matheson, M.A., B.Sc.
William Stewart.

First-class Certificates.

David G. Dykes.
Malcolm Hutton, M.A., B.Sc.
James Monie.
John Morison.
Thomas Rankine.
James Wilson.

Winter Session, 1902-3.

Prizes.

David Blackley.
James Forsyth.

First-class Certificates.

Charles G. Mackay.
James C. Pairman, M.A.

DISEASES OF THE THROAT AND NOSE.

Lecturer—James Walker Downie, M.B.

Summer Session, 1902.

Prize—James Wilson.

First-Class Certificates.

Cunison C. Finlator.
John B. Stevenson.
John W. Arthur.
William Stewart.
Thomas W. Love.
John F. Goodchild, B.Sc., M.D.

Second-class Certificates.

James Forsyth.
Angus C. M. Macrae.
Robert D. Kennedy.
James Monie.
Peter H. Robertson.
Thomas Rankine.
James D. M‘Culloch.

Winter Session, 1902-3.

Prize—Malcolm Hutton, M.A., B.Sc.

First-class Certificates.

James C. Pairman, M.A.
John F. Goodchild, B.Sc., M.D.
Robert Bryson.
Alexander A. Carruthers.
John W. Sutherland.

Second-class Certificates.

Thomas Lovett.
James R. C. Greenlees.
Andrew A. M‘Whan.

PATHOLOGY.

PROFESSOR ROBERT MUIR, M.A., M.D.

Medallist—Hugh H. Fulton.

First-class Certificates (in order of merit).

Hugh H. Fulton.
Robert B. Carslaw, M.A.
George M. Gray.
James M'Houl.
Andrew M. Pollock.
John M'Farlane,
William B. M. Martin,
Tom D. M'Ewan,
Thomas Orr, } Equal.

Second-class Certificates (in order of merit).

Andrew B. Aitken,
David Blackley,
Forrest Brechin, } Equal.
Arthur Innes,
Thomas S. Macaulay, } Equal.
John Graham.
Charles Brown,
James Porter, } Equal.
William Templeton,
Robert M. Watson,
Charles M. Drew, M.A., } Equal.
George Y. Caldwell,
David J. M'Leish, M.A., B.Sc., } Equal.
Duncan Macfadyen.
Robert Macfarlane,
John C. Henderson, } Equal.

PRACTICAL PATHOLOGY.

PROFESSOR ROBERT MUIR, M.A., M.D.

Summer Session, 1902.

First-class Certificates.

1. John M'Farlane.
2. David Blackley.

N.B.—Robert B. Carslaw, M.A. (absent from one examination), obtained a First-class Certificate.

Second-class Certificates.

David J. M'Leish, M.A.
Robert M. Wilson.
William T. Bolton.
Andrew B. Aitken.
George G. Smith, B.Sc.
Thomas Lovett.
James Porter.
Tom D. M'Ewan.
Robert Macfarlane.
Milne M'Intyre.
Allan R. Barrowman.
Hugh H. Fulton.
Berkeley H. Robertson, M.A.

MEDICAL JURISPRUDENCE AND PUBLIC HEALTH.

PROFESSOR JOHN GLAISTER, M.D., D.P.H. (Camb.), F.R.S.E.

Summer Session, 1902.

Medallist—Carl H. Browning.

First-class Certificates (in order of merit).

George M. Gray.
John M'Farlane.
Robert D. Bell, M.A.,
Robert M. Wilson, } Equal.
Charles G. Mackay.
Peter Carrick, M.A.,
Arthur Innes,
Berkeley H. Robertson, M.A., } Equal.

Second-class Certificates (in order of merit).

Charles M. Drew, M.A.
David Blackley,
Alexander R. F. Hay,
David J. M'Leish, M.A.,
Thomas Orr, } Equal.
William Templeton.
John D. M'Callum, M.A.,
Robert Macfarlane, } Equal.
Tom D. M'Ewan,
Robert C. M'Guire,
John Moffatt,
Andrew M. Pollock, } Equal.

ANATOMY.

Professor John Cleland, M.D., LL.D., D.Sc., F.R.S.

Senior Class.

Medal—James H. Baird, B.A.

Second-class Certificates.

Thomas Thom.
Walter G. Macdonald, M.A.
William L. Walker, M.A.
Alexander C. Russell.
Alexander Graham, B.Sc.

Junior Class.

Medal—Walter H. Kiep.

Second-class Certificate—Lawrence Storey.

EMBRYOLOGY.

Summer Session, 1902.

Lecturer—James F. Gemmill, M.A., M.D.

Systematic.

Prize Microscope, given by Professor Cleland—William B. Jack.

First-class Certificates (in order of merit).

William B. Jack.
George A. Allan, }
John S. Dunn, M.A., } Equal.
Henry S. Ranken, }
John L. Stewart, M.A.

Practical.

First-class Certificate—William B. M. Martin.

PHYSIOLOGY.

Professor John Gray M'Kendrick, M.D., LL.D., F.R.S.

Systematic.

John Hunter Medal and First-class Certificate—Alexander Graham, B.Sc.

First-class Certificates (in order of merit).

Peter Mitchell, M.A.
John Smith.
William P. Chrystall, }
James R. Drever, M.A., } Equal.

First-class Certificate for two Examinations—Robert S. M'Kim, M.A.

Second-class Certificates (in order of merit).

James H. Paul.
John Anderson, M.A.
John S. Clark, }
Thomas B. Smith, } Equal.
Arthur M. Crawford, }
Thomas M'Cririck, M.A., } Equal.
William J. Rutherfurd, }
William Gilfillan, } Equal.
Thomas L. Craig, }

PRACTICAL PHYSIOLOGY.

Professor John Gray M'Kendrick, M.D., LL.D., F.R.S.

Summer Session, 1902.

JOHN HUNTER MEDAL AND FIRST-CLASS CERTIFICATE—William L. Walker, M.A.

FIRST-CLASS CERTIFICATES (in order of merit).

John Reid, } Equal.
George Young,
Daniel Stewart.

William Grier,
William A. Stewart, } Equal.
James K. Welsh,

SPECIAL PRIZE FOR HISTOLOGY—James H. Baird, B.A.

SECOND-CLASS CERTIFICATES (in order of merit).

John I. Greig, M.A.
William B. Jack.
George A. Allan, } Equal.
Peter Mitchell, M.A.,
Thomas Thom.
William L. Kirkwood, } Equal.
Alexander C. Russell,

Thomas Barbour, } Equal.
Hugh MacNaught,
John L. Stewart, M.A.,
John C. Russell, M.A., } Equal.
James H. Baird, B.A.,

ADVANCED PRACTICAL PHYSIOLOGY.

Winter Session, 1902-3.

MEDAL AND FIRST-CLASS CERTIFICATE—John S. Dunn, M.A.

FIRST-CLASS CERTIFICATES (in order of merit).

John Anderson, M.A.
Jessie D. Rankin, M.A.
George A. Allan.

SECOND-CLASS CERTIFICATES (in order of merit).

John L. Stewart, M.A.
Christian E. S. Smart, } Equal.
Thomas T. Rankin,

MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR RALPH STOCKMAN, M.D.

FIRST-CLASS CERTIFICATES (in order of merit).

John Smith (Medal).
John S. Dunn, M.A.,
James Hunter, } Equal.
Henry S. Ranken,

SECOND-CLASS CERTIFICATES (in order of merit).

Walter G. Macdonald, M.A.
Arthur Robertson.
Thomas Thom.
Andrew Allison, } Equal.
John Taylor,
John Macintyre.
Ernest M. Watkins.
William Grier,
Henry J. Milligan,
Alexander C. Russell, } Equal.
Robert W. Dale, M.A.,
Robert S. Dewar, M.A.

James Fairley,
Duncan M'Ewan, } Equal.
Joseph R. Sutherland,
John L. Stewart, M.A.
Cunison D. Rankin.
Hugh MacNaught.
Peter Maguire,
James M. Renton, } Equal.
George H. Logan,
John C. Russell, M.A., } Equal.
William A. Stuart,

PRACTICAL PHARMACY.

Professor Ralph Stockman, M.D.

Summer Session, 1902.

MEDALLIST—Andrew W. Anderson.

FIRST-CLASS CERTIFICATES.

Andrew Allison.
John S. Dunn, M.A.

SECOND-CLASS CERTIFICATES.

John Murdoch.
James Hunter.
Alexander C. Russell.

BOTANY.

Professor F. O. Bower, Sc.D., F.R.S.

Summer Session, 1902.

Systematic.

MEDALLIST—John Miller, Beith.

FIRST-CLASS CERTIFICATES.

William J. Rutherfurd.
Robert S. M'Kim, M.A.,
William Gilfillan, } Equal.

SECOND-CLASS CERTIFICATES.

George Hutcheon, M.A.
John Porter,
James R. Drever, M.A., } Equal.
Thomas L. Craig.
John Struthers, M.A.
Neil Leitch.

Practical.

MEDALLIST—Thomas M'Cririck, M.A.

FIRST-CLASS CERTIFICATES.

William Gilfillan.
Robert S. M'Kim, M.A.,
John Miller, Beith. } Equal.

SECOND-CLASS CERTIFICATES.

John Porter.
John Stevenson.
Clark Nicholson.
Thomas L. Craig.

HERBARIUM PRIZE.

One Herbarium sent in—No award.

ZOOLOGY.

Professor John Graham Kerr, M.A.

Systematic.

WILLIAM HUNTER MEDAL—Robert Govan.

FIRST-CLASS CERTIFICATES (in order of merit).

James R. Drever, M.A.,
John C. Middleton, } Equal.
James Cairncross.
Matthew Young.
Edgar Barnes.
Thomas H. Campbell,
Mathew I. T. Cassidy,
Robert S. M'Kim, M.A., } Equal.
William Brown,
James H. Lindsay, } Equal.

SECOND-CLASS CERTIFICATES (in order of merit).

Thomas P. Grant.
Alexander W. Eadie, } Equal.
John Steedman,
Herbert Bertram, } Equal.
William A. Hislop,
Matthew J. Stewart.
Hugh J. Thomson.
Patrick O'Brien, } Equal.
David Arthur,
Alexander T. I. Macdonald,
Nicol M. Rankin.
William M. Elliott.
John Stewart, M.A., } Equal.
Robert S. Taylor,
Frank R. Wilson,

PRACTICAL ZOOLOGY.

Summer Session, 1902.

PROFESSOR JOHN YOUNG, M.D.

SECOND-CLASS CERTIFICATE—James H. Lindsay.

Winter Session, 1902-3.

PROFESSOR JOHN GRAHAM KERR, M.A.

FIRST-CLASS HONOURS.

William Hunter Medals and Special Prize divided equally.
Thomas M'Cririck, M.A., } Equal.
Horatio Matthews,

FIRST-CLASS CERTIFICATES (alphabetically arranged).

James R. Drever, M.A.
Andrew J. Hutton.
Robert S. M'Kim, M.A.
John W. Miller.
Matthew J. Stewart.
Hugh J. Thomson.
Matthew Young.

SECOND-CLASS CERTIFICATES (alphabetically arranged).

John Anderson, M.A.
William M. Elliott,
William C. Gunn.
David R. Mathieson.
James A. Smith.

PHYSICS.

PROFESSOR ANDREW GRAY, M.A., LL.D., F.R.S.

Summer Session, 1902.

Medallist—John Stevenson.

FIRST-CLASS CERTIFICATES (in order of merit).

Robert Donald.
John S. Clark.
William A. Campbell, } Equal.
William Gilfillan,
John Struthers, M.A.
George Campbell, } Equal.
Murdo D. Mackenzie,
John Weir.
Samuel Wilson, M.A.
James Cairncross, } Equal.
Robert S. Taylor,
William Matheson.
Frederick G. Robertson.
William J. Rutherfurd, } Equal.
James K. Welsh,
George Ligertwood.

SECOND-CLASS CERTIFICATES (in order of merit).

John Steedman, } Equal.
Matthew J. Stewart,
James N. Brown, M.A., } Equal.
Frederic Gilbert,
Neilson Davie.
Ernest M. Eaton,
Patrick O'Brien, } Equal.
William Smellie,
John V. Grant,
Hugh Morton,
Charles J. C. Macquarie, } Equal.
Alfred C. Sharp,
John Cameron.
(Mr.) Isa C. Marshall,
John A. Struthers, } Equal.
George H. Wilson,
William B. Watson.
George M. Fraser.
Herbert Bertram.
Murdo Buchanan, } Equal.
Henry H. Christie,
Wallace Adamson, } Equal.
James Coutts,
George Fletcher, } Equal.
Thomas P. Grant,
Thomas M. Anderson,
John Atkinson, } Equal.
Neil MacInnes, M.A.,
John H. M'Kay,
John W. Miller.
Henry M. Granger, } Equal.
Horatio Matthews,
Samuel N. Galbraith, } Equal.
William Leitch,
Robert S. Miller,

CHEMISTRY.

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.

JOSEPH BLACK MEDAL AND GEORGE ROGER MUIRHEAD PRIZE.

Samuel N. Forrest.

FIRST-CLASS CERTIFICATES.

Samuel N. Forrest.
Walter H. Kiep.

SECOND-CLASS CERTIFICATES.

Andrew C. Baird.
Henry J. M. Cousens.
Archibald Lang.
William Lang.
Campbell Stephen.
John Stewart, M.A.
William Wyllie.
Matthew Young.

PRACTICAL CHEMISTRY.

Summer Session, 1902.

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.

JOSEPH BLACK MEDAL AND FIRST-CLASS CERTIFICATE.

James N. Brown, M.A.

SECOND-CLASS CERTIFICATES.

James R. Drever, M.A.
Alfred C. Sharp.
William B. Watson.
Moses Youdelevitch.

Faculty of Science.

GEOLOGY.

Lecturer—Frederick Mort, M.A., B.Sc., F.G.S.

WILLIAM HUNTER MEDAL.

John J. Gemmell, M.A.

FIRST-CLASS CERTIFICATES.

John J. Gemmell, M.A.
Wm. L. Thompson, M.A., } Equal.
David Thomson, M.A., }

ENGINEERING.

Professor Archibald Barr, D.Sc., M.Inst. C.E.

THE GEORGE HARVEY PRIZE.

Neil J. Maclean, Glasgow.
Next in Order of Merit.
James Summers, Glasgow.
Charles H. Lobban, Ayr.

WALKER PRIZES.

1 and 2. { James Summers, Glasgow, } Equal.
{ Neil J. Maclean, Glasgow, }
3. Richard F. Hartley, Cheshire.
4. Clive M. Primrose, Glasgow.

CLASS IV.

1. James Summers, Glasgow.
2 and 3. { James G. Gray, Glasgow, } Equal.
{ Charles H. Lobban, Ayr, }
Next in Order of Merit.
James Gray, Dalry.

CLASS II.

1. Duncan J. Kerr, Glasgow.
2. Henry J. M. Cousens, Glasgow.
Next in Order of Merit.
Andrew Y. Wilson, Motherwell.
Henry O. Weller, London.

CLASS I.

1. Duncan J. Kerr, Glasgow.
2. Alexander Hutchison, Glasgow.
Next in Order of Merit.
Robert Ure, Glasgow.
Sidney Hartley, Cheshire.

ENGINEERING DRAWING AND DESIGN—SENIOR.

1. Henry J. M. Cousens, Glasgow.
2. Richard F. Hartley, Cheshire.
Next in Order of Merit.
Thomas G. Dempster, Glasgow.
James Summers, Glasgow.
William C. Howat, Glasgow.
Henry O. Weller, London.

ENGINEERING DRAWING AND DESIGN—JUNIOR.

1. Robert Ure, Glasgow.
2. Sidney Hartley, Cheshire.
Next in Order of Merit.
Harry F. Hodge, Glasgow.
Alexander Hutchison, Glasgow.
Thomas Muirhead, Glasgow.

ENGINEERING LABORATORY—SENIOR.

1. James Gray, Dalry.

Next in Order of Merit.

Richard F. Hartley, Cheshire, } Equal.
Neil J. Maclean, Glasgow,
John Younger, Glasgow,

ENGINEERING LABORATORY—JUNIOR.

1 and 2. { Henry J. M. Cousens, Glasgow, } Equal.
Harry F. Hodge, Glasgow,

Next in Order of Merit.

Bernard P. Haigh, Glasgow.

ENGINEERING LABORATORY—SPECIAL COURSE.

1. John Martin, Stonehaven.

Next in Order of Merit.

John Younger.

ELECTRICAL ENGINEERING.

Lecturer—James B. Henderson, D.Sc.

1. John Martin, Stonehaven.

Next in Order of Merit.

Hugh de P. Birkett. Dumbarton.

NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

Professor J. H. Biles, Mem. Counc. I.N.A., M.I.C.E., LL.D.

KIRK MEMORIAL PRIZE.

James E. Steele, Greenock.

SENIOR CLASS.

James B. Dickie, Glasgow.

JUNIOR CLASS.

Ejnar Bondegaard, Denmark.

DRAWING CLASS.

James E. Steele, Greenock.

Faculty of Arts.

HISTORY.

Professor Dudley J. Medley, M.A.

ORDINARY CLASS.

Prizes.

1. James Ballantyne.
2. John A. Falconer.
3. Kenneth Stewart.
4. Henry A. Kellow.
5. Tennant Sloan.
6. Andrew J. L. Laird.
7. Gilbert W. Elliott.
8. Jenny G. Hunter.
9. Robert Dewar.
10. Wilfred G. Maclean.

Certificates of Merit.

11. Alice A. L. Malcolm.
12. James H. Lindsay.
13. Margaret Dallas.
14. William M. Milne.
15. Netta MacDougall.
16. George E. R. Young.
17. Martha M'Gill.
18. William Grant.
19. Elsie Frame Macdonald.
20. William J. J. Thomson.
21. David Stenhouse.

MATHEMATICS.

PROFESSOR WILLIAM JACK, M.A., LL.D., D.Sc.

ADVANCED HONOURS.

1. William Miller (Cunninghame Gold Medal).
2. George D. C. Stokes.
3. Robert M. Morison (second year).

INTERMEDIATE HONOURS (A. AND B.).

1. *John Miller (A.).
2. Thomas M. MacRobert (A.).
3. Neil M'Arthur (A.).
4. Alexander Hutchison (A.).
5. { Thomas D. K. Murray (B.). Duncan J. Kerr (B.).

* Mr. John Miller obtains the Senior Muir Mathematical Bursary under the conditions stated in the Calendar.

CLASS II. (A., B., AND QUEEN MARGARET).

1. *Leonard J. Russell (B.).
2. Elizabeth G. Morison (Q.M.).
3. Hugh Smith (B.).
4. { Thomas Duncan (A.). Euphemia W. Sutherland (Q.M.).
6. { James A. Gordon (A.). Alexander F. MacRobert (B.).
8. { Margaret H. Pearson (Q.M.). Dorothy E. Lindsay (Q.M.).
10. { Alexander D. Hutcheon (B.). James Paul (A.).
12. Robert Allan (B.).
13. { Thomas Sommerville (B.). Andrew Templeton (A.). Helen A. Mitchell (Q.M.).

* Mr. Russell obtains the Junior Muir Mathematical Bursary under the conditions stated in the Calendar.

Summer Session, 1902.

LECTURERS—HORATIO S. CARSLAW, M.A., D.Sc., AND ROBERT J. T. BELL, M.A., B.Sc.

PRIZES.

1. Charles G. G. Helme.
2. { Neil M'Arthur, Clark Nicholson, } Equal.

NATURAL PHILOSOPHY.

PROFESSOR ANDREW GRAY, M.A., LL.D., F.R.S.

ORDINARY CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES (Order of Merit).

1. John F. Tinto, Glasgow (Cleland Gold Medal).
2. William B. Donald, Crosshill.
3. Robert S. Wardlaw, Tillicoultry.
4. { Thomas Miller, Glasgow, Thomas M. MacRobert, Dreghorn, James C. Wilson, Kilmarnock, } Equal.

FIRST-CLASS CERTIFICATES (Order of Merit).

William M'Adam, Leonard J. Russell, Andrew C. Baird, Adam Patrick.

Higher Mathematical Class.

Division A.

1. William Miller, Glasgow.
2. Samuel N. Forrest, Carluke,
   Robert Jack, Uddingston,
   Robert M. Morrison, Greenock, Equal.

FIRST-CLASS CERTIFICATES (Alphabetical Order).

William A. Campsie, M.A.; James M. Frew, George Green, Robert Hamilton, Andrew Henderson, M.A.; James Hunter, Archibald Lang, George D. C. Stokes.

Division B.

1. William Miller, Glasgow.
2. John Miller, Beith.
3. George D. C. Stokes, Mount Florida.

FIRST-CLASS CERTIFICATES (Alphabetical Order).

Thomas Barbour, John Campbell, William A. Campsie, M.A.; Henry J. M. Cousens, Samuel N. Forrest, James M. Frew, George Green, Bernard P. Haigh, Robert Hamilton, Robert Harvie, Andrew Henderson, M.A.; James Hunter, Robert Jack, Archibald Lang, Neil J. Maclean, James C. Moir, Robert M. Morison, James Summers, Robert Ure, John Younger.

Physical Laboratory.

Winter Session, 1902-3.

1. Alfred I. Steven, Pollokshields,
   James C. Wilson, Kilmarnock, Equal.

FIRST-CLASS CERTIFICATES (Alphabetical Order).

Alexander R. Mackenzie, James Miller, James Robertson, M.A.; George D. C. Stokes.

Summer Session, 1902.

FIRST-CLASS CERTIFICATES (alphabetically arranged).

Robert Burns.
Aaron Cantor.
Robert Dewar.
James M. Frew.
James B. Galbraith.
Robert Harvie.
Archibald Lang.
James P. Mackay.
Donald Macphie.
John S. Mitchell.
Alexander D. Ross.

ADVANCED STUDENTS.

John Campbell.
Samuel N. Forrest.

Electricity Pure and Applied.

LECTURER—Walter Stewart, M.A., D.Sc.

1. James Summers, Glasgow (Prize).

Proxime Accessit—Duncan J. Kerr, Glasgow.

First-Class Certificate—Neil J. Maclean.

LOGIC AND METAPHYSICS.

Professor Robert Latta, M.A., D.Phil.

PRIZES.

1. Elias H. Jones (Buchanan Prize).
2. Archibald A. Bowman.
3. Henry M. Trafford.
4. Charles G. G. Helme.
6. *William M'Naught,
   *William Miller.
7. Hugh B. Guthrie.
8. Thomas M. Watt.
9. Louise M. Forrest.
10. John Miller Hunter.
11. *Albert F. L. Brayne.
    *Janet S. Routledge.

* Equal.

FIRST-CLASS CERTIFICATES OF MERIT.

Thomas T. Cullen.
Joseph Cupples.
Margaret Dallas.
Robert Dewar.
Gilbert W. Elliott.
Jeanie A. T. Hewitt.
Walter Hubbard.
George P. Insh.
James M'Arthur.
Chrissibelle Macdonald.
Campbell L. Miller.
John Reid.
Alexander D. Ross.
John C. Watson.

MORAL PHILOSOPHY.

Professor Henry Jones, M.A., LL.D.

Honours Class.

1. Alexander P. Crichton (Edward Caird Medal and Mrs. John Caird Prize of Two Guineas).
2. { Robert R. Rusk (Mrs. John Caird's Prize of One-and-a-half Guineas).
   { John W. Scott (Mrs. John Caird's Prize of One-and-a-half Guineas).

Ordinary Class.

Prizes and First-Class Certificates of Merit for general eminence in the Essays, Exercises, and Examinations of the Class.

1. Robert N. Cross (Buchanan Prize).
2. Georgiana C. Blunt.
3. John R. Cameron.
4. Henry A. Kellow.
5. Jenny G. Hunter.
6. Arthur Turnbull.
7. { Jessie E. G. Grant.
   { Robert A. C. Macmillan.
9. Robert C. Thomson.
10. John A. Swan.
11. Thomas Smith.

FIRST-CLASS CERTIFICATES OF MERIT.

Duncan Blair.
Archibald A. Bowman.
Charles Cullen.
Thomas M'Ewen.
John Reid.
Richard D. Robertson.
Thomas M. Watt.

The Prize of Five Guineas, given by Mrs. John Caird, for Excellence in the Essays was awarded to Robert N. Cross.

POLITICAL ECONOMY.

Professor William Smart, M.A., LL.D., D.Phil.

THE ALEXANDER SMART MEMORIAL PRIZE of £10 in Books to the Student who stands first in the Essays.

John Struthers, M.A.,
William S. B. Wilson, } Equal.

CLASS PRIZES.

1. William S. B. Wilson.
2. Robert Burns,
   John Struthers, M.A., Equal.
4. James H. Lindsay.
5. John Lewis.
6. Alice A. L. Malcolm,
   Maggie M. Reid, Equal.

Proxime accesserunt.

Robert D. Watt.
Hugh L. Hall.
Andrew R. Duncan.
David B. Mungo, M.A.
John MacLean.
John R. Cameron.

EDUCATION.

Lecturer—John Clark, M.A.

PRIZES.

1. William L. Thomson, M.A.
2. Margaret M. Farquharson,
   William T. Ritchie, Equal.
4. John Lambie.
5. John M. Cuthbertson.
6. James Dunlop.
7. William D. White,
   Jeanie A. T. Hewitt, Equal.
9. Helen A. Mitchell.
10. Janet M. Mackenzie.
11. William Scott.

FIRST-CLASS CERTIFICATES.

Robert Jackson.
Jenny C. Climie.
James M'Murdo.
John M'Bride.
Richard D. Robertson.
James R. Brown.
Alexander D. Ross.
William R. Bryan.
Chrissibelle Macdonald.
John Sturgeon.
John F. Lang.
Elsie Fraser Macdonald.
James G. Russell.

ESSAY PRIZES.

1. William T. Ritchie.
2. William L. Thompson, M.A.,
   John M. Cuthbertson,
   John M'Bride, Equal.

HUMANITY.

Professor George G. Ramsay, M.A., LL.D., Litt. Doc.

Prizes for General Excellence in the work of the Session.

Honours Class, 1 p.m.

MUIRHEAD PRIZES.

1. Peter Marshall, Stirling.
2. Charles G. G. Helme, Dalbeattie.
3. William S. Stewart, St. Martin's.

Senior Class, 9 a.m.

THE COWAN GOLD MEDAL.

John C. Rollo, Tollcross.

ORDINARY PRIZES.

2. Alexander C. Grant, London.
3. James C. M. Fairlie, Paisley.
4. David T. Leggat, Galston.
5. Euphemia W. Sutherland, Glasgow.
6. William M. Ogilvy, Coatbridge.
7. Murray Macgregor, Glasgow.
8. John H. Maxwell, Paisley.

SENIOR CLASS, 8 A.M.

James Paul, Coatbridge.

MIDDLE CLASS.

Richard C. Corrie, Doncaster.

II. Prizes for Latin Prose Composition.

HONOURS CLASS (SECTION I.).

1. William Manson, Cambuslang.
2. Charles G. Nelson, Girvan.
3. Robert W. Barr, Hamilton.

SENIOR CLASS (SECTION II.).

1. James C. M. Fairlie, Paisley.
2. Francis M. Smith, Chelmsford.

III. VACATION EXERCISES.

1. Latin Essay on "Imperialism." Open to Senior and Honours Class of 1901-2.

Neil Conley, Campbeltown.

2. For learning by heart Horace Od. II. Open to Middle and Senior Class of 1901-02.

Equal, { James Ballantyne, Carstairs.
James K. Dunlop, Kilmarnock.

Extra Prize—Allan R. Mackenzie, Stornoway.

LATIN BLACKSTONE EXAMINATION.

COWAN GOLD MEDAL.

James Ballantyne, Carstairs.

Summer Session, 1902.

LECTURER—DAVID A. SLATER, M.A.

PRIZES.

1. John F. Tinto.
2. Alexander R. Mackenzie.

Proxime accesserunt—Isa E. Lauder.
William Brown.

GREEK.

PROFESSOR JOHN S. PHILLIMORE, M.A.

HONOURS CLASS.

General Order of Merit.

1. *Charles G. Nelson.
2. *James M. Devine.
3. John M'Bryde (Scott Macfarlan Medallist)
4. Arthur Shepherd (1st Prizeman).
5. John R. Brown (2nd Prizeman).
6. *William J. Auld.
7. Albert F. L. Brayne (3rd Prizeman).

*Second year—Prizes have been awarded only to those who took the class for the first time, doing the whole class work.

SENIOR CLASS.

Prizes and First-Class Certificates (in order of merit):

1. John C. Rollo (Jeffrey Gold Medallist).
2. Francis M. Smith.
3. James C. M. Fairlie. Prizemen.
4. Adam W. Burnett.
5. John M'Whan.
6. Wilfred G. Maclean.
7. Gilbert W. Elliott.
8. Alexander C. Grant.
9. John Hutcheson.
10. William M. Ogilvy.

Prizes for Prose in Div. I.

1. Francis M. Smith.
2. James C. M. Fairlie.

Prizes for Prose in Div. II.

1. David T. Leggat.
2. William King.

Prize for Weekly Translations.

James C. M. Fairlie.

Prizes for Written Examinations.

1. Alexander C. Grant.
2. John C. Rollo.

Prize for Essays.

John Hutcheson.

Prizes for Oral Classwork (voted by the Class).

1. James C. M. Fairlie.
2. Leonard J. Russell.

Blackstone Examination.

Cowan Gold Medal—John R. Brown.

ENGLISH LITERATURE.

PROFESSOR WALTER A. RALEIGH, M.A.

PRIZES.

1. William Manson.
2. William D. T. Black.
3. James M'Arthur.
   William D. White.
5. John Anderson.
   Thomas Duncan.
   William Scott.
8. Arthur A. Cowan.
   Robert Inglis.
   George J. Jeffrey.

CERTIFICATES OF DISTINCTION.

Andrew C. Baird.
Charles Cullen.
Robert Dewar.
John Miller Hunter.
William D. Macgill.
Robert C. Thomson.

FIRST-CLASS CERTIFICATES.

Alexander Beaton.
Robert Browning.
Andrew R. Duncan.
John A. Fleming.
John Lambie.
William Grant.
Robert M'Kinlay.
James W. More.

FRENCH LANGUAGE AND LITERATURE.

Lecturer—Charles Martin, M.A., O.A.

HONOURS CLASS.

First Prize—Offered by the Minister of Public Instruction in France.
Mary E. Thomson.
Second Prize—Mary C. Biggar.
Third Prize—Janet Green.

FIRST-CLASS CERTIFICATES.

Arthur Craig.
Mary Barrowman.
Elizabeth W. Scott.
Annie J. Arnott.

ORDINARY CLASS.

PRIZES.

1. Thomas Beaumont.
2. Dugald F. Percy,
   Thomas M. Watt, Equal.
3. Alexander G. K. Allison,
   James M'Fadyen,
   John M. Scott, Equal.

FIRST-CLASS CERTIFICATES.

Arthur E. MacGregor.
William K. Reid.
Charles M. Rice.

GERMAN LANGUAGE AND LITERATURE.

Lecturer—G. P. Thistlethwaite, B.A., Ph.D.

Prize—William T. Ritchie.
First-Class Certificate—James Hogg.

WOMEN'S DEPARTMENT.

Faculty of Medicine.

SURGERY.

Lecturer—James Hogarth Pringle, M.B., F.R.C.S.

MEDAL—Katharine M. Chapman.

PRACTICE OF MEDICINE.

Lecturer—John Lindsay Steven, M.D.

Medal—Eliza J. Miller.

FIRST-CLASS CERTIFICATES.

Agnes W. Cameron
Jessie G. Duncan.

SECOND-CLASS CERTIFICATES.

Anna P. Martin.
Jeanie Auld.
Margaret Hardy.

MIDWIFERY AND GYNÆCOLOGY.

PROFESSOR MURDOCH CAMERON, M.D., and
JOHN M. M. KERR, M.B.

Medal—Agnes W. Cameron.

SECOND-CLASS CERTIFICATES.

Annie A. Baird, M.A.	Lily Smellie.

INSANITY.

(See under Men's Department.)

OPHTHALMOLOGY.

Summer Session, 1902.

LECTURER—A. MAITLAND RAMSAY, M.D.

Prize—Jessie G. Duncan.

FIRST-CLASS CERTIFICATES.

Kate Fraser, B.Sc.	Eliza J. Miller.

SECOND-CLASS CERTIFICATES.

Jeanie Auld.	Jane R. F. Gilmour.

DISEASES OF THE EAR.

Summer Session, 1902.

LECTURER—THOMAS BARR, M.D.

FIRST-CLASS CERTIFICATES.

Kate Fraser, B.Sc.	Martha H. Scott.

PATHOLOGY.

LECTURER—CHARLES WORKMAN, M.D.

Medal—Lily Smellie.

First-Class Certificates.

Jane R. Shaw.	Mary T. Gallagher.

PRACTICAL PATHOLOGY.

Summer Session, 1902.

LECTURER—CHARLES WORKMAN, M.D.

Medal—Roberta Campbell.

First-Class Certificates.

Annie A. Baird, M.A.	Lily Smellie.

MEDICAL JURISPRUDENCE AND PUBLIC HEALTH.

Summer Session.

PROFESSOR JOHN GLAISTER, M.D., D.P.H. (Camb.), F.R.S.E.

Medal—Annie A. Baird, M.A.

First-Class Certificate—Mary T. Gallagher.

ANATOMY.

LECTURER—THOMAS H. BRYCE, M.A., M.D.

SENIOR CLASS.

Medal—Elizabeth M. M'Vail.

First-Class Certificate—Jessie D. Rankin, M.A.

Second-Class Certificate—Jeannie T. Clark.

JUNIOR CLASS.

Medal—Agnes Picken.

EMBRYOLOGY.

Summer Session, 1902.

LECTURER—THOMAS H. BRYCE, M.A., M.D.

First-Class Certificate—Jessie D. Rankin, M.A.

PHYSIOLOGY.

PROFESSOR JOHN G. M'KENDRICK, M.D., LL.D., F.R.S., and WALTER COLQUHOUN, M.A., M.B.

Second-Class Certificates.

Jeannie M. Andrew.	Annie C. Bark.

PRACTICAL PHYSIOLOGY.

Summer Session, 1902.

PROFESSOR JOHN G. M'KENDRICK, M.D., LL.D., F.R.S., and JOHN H. TEACHER, M.A., M.B.

Medal—Jessie D. Rankin, M.A.

First-Class Certificate—Christian E. S. Smart.

Second-Class Certificates.

Elizabeth M. M'Vail, Mary Spence, } Equal.	Jeannie T. Clark.

ADVANCED PRACTICAL PHYSIOLOGY.

(See under Men's Department.)

MATERIA MEDICA AND THERAPEUTICS.

LECTURER—WILLIAM MACLENNAN, M.B.

Medal—Elizabeth M. M'Vail.

First-Class Certificate—Jessie D. Rankin, M.A.

PRACTICAL PHARMACY.

Summer Session, 1902.

LECTURER—WILLIAM MACLENNAN, M.B.

Medal—Elizabeth M. M'Vail.

First-Class Certificate—Jeannie T. Clark.

BOTANY.

Summer Session, 1902.

LECTURER—WILLIAM H. LANG, D.Sc., M.B

SYSTEMATIC.

Medal—Kathleen M. Nolan.

Second-Class Certificates.

Agnes Picken. Eva Gilmour.

PRACTICAL.

Medal—Kathleen M. Nolan.

First-Class Certificate—Jane H. Ross.

Second-Class Certificates.

Jeannie M. Andrew. Agnes Picken. Eva Gilmour.

ZOOLOGY.

Summer Session, 1902.

PROFESSOR JOHN YOUNG, M.D., and JAMES RANKIN, B.Sc., M.B.

SYSTEMATIC.

Medal—Agnes Picken.

First-Class Certificate—Jeannie M. Andrew.

PRACTICAL.

Medal—Jeannie M. Andrew.

PHYSICS.

LECTURER—JAMES BLYTH, M.A., LL.D., F.R.S.E.

Second-Class Certificates.

Margaret G. Forrest. Jane I. Robertson. Annie M'Cror

CHEMISTRY.

LECTURER—THOMAS GRAY, D.Sc.

SYSTEMATIC CLASS.

Medal—Dorothy E. Lindsay.

First-Class Certificates.

Margaret Macintyre. Margaret Mann.

Second-Class Certificates.

Jane I. Robertson. Rhoda G. Harrison.

PRACTICAL CLASS.

First-Class Certificate—Jane I. Robertson.

Faculty of Arts.

HISTORY.

(See under Men's Department.)

MATHEMATICS.

(See under Men's Department.)

NATURAL PHILOSOPHY.

LECTURER—JAMES BLYTH, M.A., LL.D., F.R.S.E.

FIRST-CLASS CERTIFICATES.

Mary V. Hunter.
Janet S. Routledge.
Margaret E. M'Kerrow.
Hilda O. Lindsay.
Helen Wilkie.

LOGIC AND METAPHYSICS (AT THE UNIVERSITY).

(See under Men's Department.)

LOGIC AND METAPHYSICS (AT QUEEN MARGARET COLLEGE).

LECTURER—NORMAN D. SMITH, M.A.

PRIZE—Octavia J. R. Bennett.

FIRST-CLASS CERTIFICATES.

Margaret Mair, } Equal.
Mary I. Moody Stuart, } Equal.
Elsie Frame Macdonald.
Jennie C. Hunter.

MORAL PHILOSOPHY (AT THE UNIVERSITY).

(See under Men's Department.)

MORAL PHILOSOPHY (AT QUEEN MARGARET COLLEGE).

LECTURER—ROBERT A. DUFF, M.A.

FIRST-CLASS CERTIFICATE.

Ida M. Gordon.

POLITICAL ECONOMY.

(See under Men's Department.)

EDUCATION.

(See under Men's Department.)

CONSTITUTIONAL LAW AND HISTORY.

(See under Men's Department.)

LATIN.

(See under Men's Department.)

GREEK.

(See under Men's Department.)

ENGLISH LANGUAGE AND LITERATURE.

Professor Walter A. Raleigh, M.A., and David H. Crawford, M.A.

PRIZES.

1. Margaret E. M‘Kerrow, } Nichol Memorial Prize.
2. Muriel G. Lindsay, }
3. Jane C. W. Herriot.
4. Ida M. Gordon.
5. { Mary V. Hunter, } Equal.
   { Jessie F. Lamb, }
7. Isabella M. Milligan.

FIRST-CLASS CERTIFICATES (in alphabetical order).

Agnes W. Drape.
Margaret A. Harvey.
Joan D. Hughes.
Annie F. Kedie.
Elsie Fraser Macdonald.

FRENCH LANGUAGE AND LITERATURE.

Lecturer—Charles Martin, M.A., O.A.

HONOURS CLASS.

(See under Men's Department.)

ORDINARY CLASS.

PRIZES.

1. Annie M. Macgregor.
2. { Olive M. Coats, } Equal.
   { Annie G. Philip, }
3. Wilhelmina R. Brand.
4. { Margaret M. Anderson, } Equal.
   { Margaret R. Cowie, }
   { Janet I. Macphail, }
   { Isabella Wilson, }

FIRST-CLASS CERTIFICATES.

Victoria T. Coats.
Marie F. Dyer.
Elizabeth C. Finlayson.
Lydia E. Finlayson.
Elizabeth Macmillan.
Flora Macmillan.
Lina Morrison.
Flora Ritchie.

GERMAN LANGUAGE AND LITERATURE.

Lecturer—G. P. Thistlethwaite, B.A., Ph.D.

HONOURS CLASS.

PRIZE.

Mary C. Biggar, } Equal.
Janet Green, }
Mary E. Thomson, }

FIRST-CLASS CERTIFICATES.

Annie J. Arnott.
Mary Barrowman.

ORDINARY CLASS.

PRIZES.

1. { Janey A. Keddie, } Equal.
   { Annie G. Philip, }
2. { Margaret M. Anderson, } Equal.
   { Isabella Wilson, }

FIRST-CLASS CERTIFICATE.

Janet I. Macphail.

XIII.—EXAMINATION QUESTIONS.

I. PRELIMINARY EXAMINATION IN ARTS AND SCIENCE.

March—April, 1903.

ENGLISH.

FIRST PAPER—Two Hours.

(Five, *and not more than* five, *questions to be answered. Questions* 1, 2 *and* 6 *must be answered by all.*)

1. Write an essay of from two to three pages long, on *one* of the following subjects:

(1) The Historical Novel.

(2) "Let me make the ballads, and let who will make the laws of a nation."

(3) The use and abuse of desultory reading.

2. Paraphrase:

Yes! in the sea of life enisled,
With echoing straits between us thrown,
Dotting the shoreless watery wild,
We mortal millions live *alone.*
The islands feel the enclasping flow,
And then their endless bounds they know.
But when the moon their hollows lights,
And they are swept by balms of spring,
And in their glens, on starry nights,
The nightingales divinely sing;
And lovely notes, from shore to shore,
Across the sounds and channels pour—
Oh! then a longing like despair
Is to their farthest caverns sent;
For surely once, they feel, we were
Parts of a single continent!
Now round us spreads the watery plain—
Oh, might our marges meet again!

Who order'd that their longing's fire
  Should be, as soon as kindled, cool'd?
Who renders vain their deep desire?
  A God, a God their severance ruled!
And bade betwixt their shores to be
The unplumb'd, salt estranging sea.

3. Explain the terms syntax, subject, predicate, inflexion, metathesis, aphœresis, apocope, syncope.

4. Comment on the form of the following: Kine, honour, nickname, rain, alms, island, rhyme, oxen, men, widower, for the nonce, rather.

5. Point out anything peculiar or erroneous in the following sentences, and where necessary rewrite the sentences so as to correct or improve them:

(*a*) He gave no more than he could help.

(*b*) I cannot, of course, dispute with an opponent who reads what I write with so little attention.

(*c*) The religious took pleasure in their cant terms, and sprinkled them as plentifully in their sermons and prayers as ever did skilful cook in time-honoured Christmas pudding.

(*d*) No words of ours could possibly reveal a more righteous moral indignation against many of the outrageous passages in Rousseau's *Confessions* than we find excited by some of the opinions regarding them expressed by Mr. Morley.

6. Give a general analysis of the following passage, and parse the words in italics:

Ah, Chloris! *that* I now could sit
  As unconcern'd *as* when
Your *infant* beauty *could* beget
  No pleasure, nor no pain!
When I the dawn used to admire,
  And *praised* the coming day,
I *little* thought the *growing* fire
  Must take my rest away.

SECOND PAPER—Two Hours.

(Eight, *and not more than* eight, *questions are to be answered. Of these*, three *must be taken from Section* A, *and of the* three, 5 *must be one, three from Section* B, *and* two *from Section* C.)

A.

1. Write a short estimate of the eighteenth century English essayists *or* of the Lake poets.

2. In *Coriolanus*, Shakespeare's aim is "to represent the ruin of a noble nature through haughtiness and pride." What incidents in the play bear out this statement?

3. Write an account of the fortunes of Nigel from his taking refuge in Alsatia to his committal to the Tower.

4. (*a*) Give the substance of Carlyle's criticism of the songs of Burns; *or*

(*b*) How does Carlyle develop his proposition that the blame of Burns's failure lies not with the world but with himself?

5. Give the context of, and explanatory notes on:

(*a*) The blood I drop is rather physical than dangerous.

(*b*) He wag'd me with his countenance, as if I had been mercenary.

(*c*) The lackeys and the gallants, and more especially your sworn brother, Lord Dalgarno, call you the sparrow-hawk.

(*d*) Ah, my bright and bonny sparklers, my heart loups licht to see you again.

(*e*) Johnson said he loved a good hater; by which he must have meant not so much one that hated violently, as one that hated wisely; hated baseness from love of nobleness.

B.

(*In this Section Candidates must take the questions of only one period.*)

FIRST PERIOD, B.C. 55 TO A.D. 1603.

1. Write brief notes on *four* of the following: Caractacus, Danegeld, Battle of Falkirk, Magna Charta, Chapter of Mytton, Wat Tyler, Statute of Præmunire, Perkin Warbeck.

2. Give an account of *one* of the following: Edward IV., James II. of Scotland, Mary I. of England.

3. Write a very short essay on *one* of the following: the relations between England and Scotland from 1286 to 1328; the Wars of the Roses; the Sea-dogs of the Elizabethan period.

SECOND PERIOD, 1603-1707.

1. Write brief notes on *four* of the following; Strafford, Cromwell in Ireland, the Test Act, the Exclusion Bill, the Bloody Assize, the Declaration of Right, the Darien Scheme, Queen Anne's Bounty.

2. Write a short life of Shaftesbury, *or* Montrose, *or* Monmouth.

3. Write a very short essay on *one* of the following: Scotland under Charles II.; Cromwell's Foreign Policy; the Union of the English and Scottish Crowns.

THIRD PERIOD.

1. Write brief notes on any *four* of the following: Admiral Byng, Dettingen, Bunker's Hill, Admiral Rodney, the Six Acts, Pitt's India Bill, Battle of the Nile, Castlereagh.

2. Write a short life of Walpole, *or* William Pitt, *or* Nelson.

3. Write a very short essay on *one* of the following: the reforms associated with Wilkes; the history of the movement for parliamentary reform from 1745 to 1832; the Union of Great Britain and Ireland.

C.

1. Give a general account of the British possessions in Africa south of the equator.

2. Explain the connection between the physical characteristics of Great Britain and its position in the markets of the world.

3. Show the interdependence of nations from the commercial relations between this country and the United States, France, and Russia.

4. When and for what noted are: Paardeberg, Bolton, Copenhagen, Davos, Fiume, Liberia, Lubeck, Massachusetts, Monaco, Quilimane?

LOWER LATIN—Three Hours.

I. Translation.

1. Translate:

Haec cum Appius dixisset, Lycortas ita respondit: "Difficilior nobis, Ap. Claudi, apud vos oratio est quam Romae nuper apud senatum fuit. Tunc enim Lacedaemoniis accusantibus respondendum erat; nunc a vobis ipsis accusati sumus, apud quos causa est dicenda. Quam iniquitatem condicionis *subimus* illa spe, iudicis animo te auditurum esse, posita contentione qua paulo ante *egisti*. Ego certe, cum ea quae et hic antea apud Q. Caecilium et postea Romae questi sunt Lacedaemonii a te paulo ante relata sint, non tibi, sed illis me apud te respondere credam. Caedem obicitis eorum, qui a Philopoemene praetore evocati ad causam dicendam *interfecti* sunt. Hoc ego crimen non modo a vobis, Romani, sed ne apud vos quidem nobis *obiciendum* fuisse arbitror. Quid ita? Quia in vestro foedere erat, ut maritimis urbibus *abstinerent* Lacedaemonii.

2. Parse fully the five words printed in italics in the above.

II.

Translate into Latin prose:

When the priest heard the words of Paullinus he said to Edwin, "O King, no man hath served the gods more faithfully than I, seeking the truth, but none the more did I find it. Wherefore, since the gods cannot help us, let us burn their temples and cast down their altars." Then he prayed the King to give him a horse and lance, and he took them and rode to the temple and flung the lance upon the holy ground, where no weapon might come. And the people thought that he was mad, and marvelled, thinking that the gods would surely slay him. But he bade them break down the temple and burn the gods. And when they saw that he got no harm they did so, and believed no more in the old gods.

III. Grammar.

1. Give the gender, meaning, dative singular and ablative plural of *heres*, *decus*, *cadaver*, *bos*, *arcus*, *mel*.

2. Write the other degrees of comparison of *nequior*, *senex*, *minor*, *maxime*. Form adverbs from the words *par*, *antiquus*, *certare*, *tutus*.

3. Give the genitive singular masculine of the future participle of the verbs *juvo*, *uro*, *morior*, *vincio*. Write the Latin for *eightieth*, *three-fourths*, *twelve thousand men*, *seven times five are thirty-five*.

4. Translate, with short notes on the syntax of the words in italics :

(*a*) *Primus sententiam* rogatus est.

(*b*) *Cui bono* est?

(*c*) His decem *diebus* proficisci *debuit.*

(*d*) *Mea* refert, non *Ciceronis.*

5. Give the meaning of *uterque vir*, *utrique viri*, *eunti*, *eunto*, *libet*, *licet*, *consulere aliquem*, *consulere alicui.*

IV. SENTENCES.

1. I should like you to value reputation more highly than money.

2. If Claudia had married Sempronius, he would never have shown himself such a fool.

3. Although he is not hated by the Romans, it is doubtful if they will treat him well.

4. Instead of hurrying on to Rome, Hannibal went into winter quarters at Capua.

HIGHER LATIN.

FIRST PAPER—TWO HOURS.

I. TRANSLATION.

Translate into English :

A Eulogy of Rome.

(*a*) Ac si nos, id quod maxime debet, nostra patria delectat, cuius rei tanta est vis ac tanta natura, ut Ithacam illam in asperrimis saxulis tamquam nidulum adfixam sapientissimus vir immortalitati anteponeret, quo amore tandem inflammati esse debemus in eius modi patriam, quae una in omnibus terris domus est virtutis, imperii, dignitatis? Cuius primum nobis mens, mos, disciplina nota esse debet, vel quia est patria parens omnium nostrum vel quia tanta sapientia fuisse in iure constituendo putanda est, quanta fuit in his tantis opibus imperii comparandis. Percipietis etiam illam ex cognitione iuris laetitiam et voluptatem, quod, quantum praestiterint nostri maiores prudentia ceteris gentibus, tum facillime intellegetis, si cum illarum Lycurgo et Dracone et Solone nostras leges conferre volueritis; incredibile est enim quam sit omne ius civile praeter hoc nostrum inconditum ac paene ridiculum; de quo multa soleo in sermonibus cotidianis dicere, cum hominum nostrorum prudentiam ceteris omnibus et maxime Graecis antepono.

(*b*) Quis fuit, horrendos primus qui protulit enses?
  Quam ferus et vere ferreus ille fuit!
Tum caedes hominum generi, tum proelia nata,
  Tum brevior dirae mortis aperta via est.
An nihil ille miser meruit, nos ad mala nostra
  Vertimus, in saevas quod dedit ille feras?
Divitis hoc vitium est auri; nec bella fuerunt,
  Faginus adstabat cum scyphus[1] ante dapes.

---

[1] *Scyphus*, cup, goblet.

Non arces, non vallus erat, somnumque petebat
Securus varias dux gregis inter oves.
Tunc mihi vita foret, vulgi nec tristia nossem
Arma nec audissem corde micante tubam?
Nunc ad bella trahor, et iam quis forsitan hostis
Haesura in nostro tela gerit latere.
Sed patrii, servate, Lares: aluistis et idem
Cursarem vestros cum tener ante pedes.

II. Sentences.

1. Everyone wishes to be trusted; but you have been so careless that no one can trust you any longer.

2. These are schemes which even one's friends, not to say one's enemies, must resist.

3. Without bringing ourselves to attend closely to it, we shall never be able to conclude this matter successfully.

4. Perhaps you think your friend should have been elected consul by the people at the last elections: I say that he did not deserve to be elected.

5. Pardon him, I implore you: you will never have reason to regret having been merciful.

SECOND PAPER—Two Hours.

I. For Prose Composition.

Lucilian, who with the rank of general of the cavalry commanded the military powers of Illyricum, was alarmed and perplexed by the doubtful reports which he could neither reject nor believe. He had taken some slow and irresolute measures for the purpose of collecting his troops, when he was surprised by an active officer whom Julian, as soon as he landed at Bononia, had sent forward with some light infantry. The captive general, uncertain of his life or death, was hastily thrown upon a horse, and conducted to the presence of Julian, who kindly raised him from the ground, and dispelled the terror and amazement which seemed to stupefy his faculties. But Lucilian had no sooner recovered his spirits than he presumed to admonish his conqueror that he had rashly ventured, with a handful of men, to expose his person in the midst of enemies. "When I gave you my purple to kiss," replied Julian with a smile of contempt, "I received you not as a counsellor, but as a suppliant."

II. Grammar, etc.

1. (*a*) Give the chief parts of *repello*, *mordeo*, *figo*, *sono*.

(*b*) Write down the gender and genitive singular of *fulmen*, *acus*, *grex*, *robur*.

2. Explain any four of the following: *iustitium*, *delator*, *aedilis*, *consul suffectus*, *suovetaurilia*, *impluvium*, *latus clavus*, *porta decumana*.

3. (*a*) Give the meaning and position in a clause of *at enim*, *namque*, *tamen*, *scilicet*.

(*b*) Construct and translate short sentences to illustrate the usage of the following : *tenus*, *prae*, *etsi*, *secus*, *prohibere*. *donare*.

4. Explain what is meant by any four of the following : *nominativus pendens*, *predicative dative*, *asyndeton*, *chiasmus*, *oxymoron*, *hendiadys*.

5. Translate the following, commenting on the subjunctives :

(*a*) Ne sim salvus, si aliter scribo ac sentio.

(*b*) Abeas volo hodie.

(*c*) Non is es qui nihil timeas.

(*d*) Signa hostis refert, maestusque (crederes victum) redit in castra.

6. (*a*) Distinguish *vīres*, *vĭres* ; *mānes*, *mănes* ; *fūror*, *fŭror* ; *lēgas*, *lĕgas*.

(*b*) Scan :

Illud amicitiae sanctum et venerabile nomen
Re tibi pro vili est sub pedibusque iacet.

LOWER GREEK—THREE HOURS.

I. Translate :

An Arcadian Expedition against Elis.

Οἱ δ' αὖ Ἀρκάδες πάλιν ποιοῦνται ἄλλην στρατείαν εἰς τὴν Ἦλιν. μεταξὺ δὲ Κυλλήνης καὶ τῆς πόλεως στρατοπεδευομένοις αὐτοῖς ἐπιτίθενται οἱ Ἠλεῖοι, ὑποστάντες δὲ οἱ Ἀρκάδες ἐνίκησαν αὐτούς. καὶ Ἀνδρόμαχος μὲν ὁ Ἠλεῖος ἵππαρχος, ὅσπερ αἴτιος ἐδόκει εἶναι τὴν μάχην συνάψαι, αὐτὸς αὑτὸν διέφθειρεν· οἱ δ' ἄλλοι εἰς τὴν πόλιν ἀπεχώρησαν. ἀπέθανε δὲ ἐν ταύτῃ τῇ μάχῃ παραγενόμενος καὶ Σωκλείδης ὁ Σπαρτιάτης· ἤδη γὰρ τότε οἱ Λακεδαιμόνιοι σύμμαχοι τοῖς Ἠλείοις ἦσαν. πιεζόμενοι δὲ οἱ Ἠλεῖοι ἐν τῇ ἑαυτῶν, ἠξίουν καὶ τοὺς Λακεδαιμονίους πέμποντες πρέσβεις ἐπιστρατεύειν τοῖς Ἀρκάσι, νομίζοντες οὕτως ἂν μάλιστα ἀπολαβεῖν τοὺς Ἀρκάδας, εἰ ἀμφοτέρωθεν πολεμοῖντο. καὶ ἐκ τούτου δὴ Ἀρχίδαμος στρατεύεται μετὰ τῶν πολιτῶν καὶ καταλαμβάνει Κρῶμνον. καταλιπὼν δ' ἐν αὐτῷ φρουρὰν τῶν δώδεκα λόχων τρεῖς, οὕτως ἐπ' οἴκου ἀνεχώρησεν. οἱ μέντοι Ἀρκάδες, ὥσπερ ἔτυχον ἐκ τῆς εἰς Ἦλιν σρατείας συνειλεγμένοι, βοηθήσαντες περιεσταύρωσαν τὸν Κρῶμνον διπλῷ σταυρώματι καὶ ἐν ἀσφαλεῖ ὄντες ἐπολιόρκουν τοὺς ἐν τῷ Κρώμνῳ. χαλεπῶς δὲ ἡ τῶν Λακεδαιμονίων πόλις φέρουσα ἐπὶ τῇ πολιορκίᾳ τῶν πολιτῶν ἐκπέμπει στρατιάν· ἡγεῖτο δὲ καὶ τότε Ἀρχίδαμος. ἐλθὼν δὲ ἐδῄου καὶ τῆς Ἀρκαδίας ὅσα ἐδύνατο καὶ τῆς Σκιρίτιδος, καὶ πάντα ἐποίει ὅπως, εἰ δύναιτο, ἀπαγάγοι τοὺς πολιορκοῦντας.

πιεζόμενοι, pressed : σταύρωμα, palisade.

II. GRAMMAR.

1. Write down :

(*a*) 3rd plur. pres. indic. of οἶδα, δίδωμι, ἐπίσταμαι, εἶμι.

(*b*) Nom. mas. perf. part. pass. of τάττω, στέλλω, γράφω, ἁρπάζω.

(*c*) Dat. plur. aor. part. pass. of πείθω, λαμβάνω, σῴζω, κελεύω.

(*d*) 3rd sing. fut. indic. of ἐλαύνω, γελῶ, ἀποθνῄσκω, βαίνω.

(*e*) 2nd aor. infin. act. of *πίπτω, φέρω, εὑρίσκω, αἱρῶ.*

(*f*) 3rd plur. aor. indic. of *ἀφικνοῦμαι, ἀποκρίνομαι, ὑπισχνοῦμαι, πορεύομαι.*

(*g*) 3rd plur. pres. opt. act. of *τιμᾶν, ποιεῖν, δηλοῦν, δεικνύναι.*

2. Give:

(*a*) Gen. sing. and dat. plur. of *ἄστυ, ἀνάγκη, κέρας, χείρ.*

(*b*) Gen. and acc. sing. of *κάλλος, πρᾶξις, οἰκέτης, πρᾶγμα.*

(*c*) Dat. and acc. plur. of *πόλις, ἐγώ, τοῦτο, τεῖχος.*

3. Parse, giving the 1st person sing. pres. indic. act. of the verb to which each form belongs: *λῦσαι, ποιοῦ, εἰπέ, τυχόν, λήψεσθε, ἀποδείξῃς, ὑπερέσχε, φῆναι.*

4. Translate: For the sake of peace; after the battle; on these conditions; according to the laws; in addition to this; through the land.

5. Compare: *κενός, αἰσχρός, ἀμαθής, ἡδέως.* Give the Greek for tenth, two thousand, six times, forty-five.

III. Translate into Greek:

1. He is evidently our friend and he will do us much good if he can.

2. Who is he? Whoever he is, we must take care not to act unjustly.

3. Before marching they knew that their enemies were in their land.

4. Let us send a messenger to the King and tell him what we desire.

5. Everyone said that the victory by sea would save the city.

HIGHER GREEK.

FIRST PAPER—Two Hours.

I. Translate:

Defenders of their country.

τοιαύταις δὲ γνώμαις χρησάμενοι, καὶ τοῖς ἀρίστοις ἀνδράσιν ἐξ ἴσου τῶν κινδύνων μετασχόντες, οὐχ ὁμοίως τῆς τύχης ἐκοινώνησαν· τῆς γὰρ ἀρετῆς οὐ ζῶντες ἀπολαύουσιν, ἀλλὰ τελευτήσαντες τὴν δόξαν καταλελοίπασιν, οὐχ ἡττηθέντες, ἀλλ' ἀποθανόντες ἔνθαπερ ἐτάχθησαν ὑπὲρ τῆς ἐλευθερίας ἀμύνοντες. εἰ δὲ δεῖ καὶ παραδοξότατον μὲν εἰπεῖν ἀληθὲς δέ, ἐκεῖνοι νικῶντες ἀπέθανον. τὰ γὰρ ἆθλα τοῦ πολέμου τοῖς ἀγαθοῖς ἀνδράσιν ἐστὶν ἐλευθερία καὶ ἀρετή· ταῦτα γὰρ ἀμφότερα τοῖς τελευτήσασιν ὑπάρχει. ἔπειτα δὲ οὐδ' οἷόν τ' ἐστὶν εἰπεῖν ἡττῆσθαι τοὺς ταῖς διανοίαις μὴ πτήξαντας τὸν τῶν ἐπιόντων φόβον. μόνους γὰρ τοὺς ἐν τοῖς πολέμοις καλῶς ἀποθνήσκοντας οὐδ' ἂν εἷς ἡττῆσθαι δικαίως φήσειε· τὴν γὰρ δουλείαν φεύγοντες εὐκλεᾶ θάνατον αἱροῦνται. ἐδήλωσε δὲ ἡ τούτων τῶν ἀνδρῶν ἀρετή. μόνοι γὰρ τῶν ἁπάντων τὴν τῆς Ἑλλάδος ἐλευθερίαν ἐν τοῖς ἑαυτῶν σώμασιν εἶχον. ἅμα γὰρ οὗτοί τε τὸν βίον μετήλλαξαν καὶ τὰ τῆς Ἑλλάδος εἰς δουλείαν μετέπεσεν. συνετάφη γὰρ τοῖς τούτων σώμασιν ἡ τῶν ἄλλων Ἑλλήνων ἐλευθερία. ὅθεν καὶ φανερὸν πᾶσιν ἐποίησαν οὐκ ἰδίᾳ πολεμοῦντες ἀλλ' ὑπὲρ κοινῆς ἐλευθερίας προκινδυνεύοντες.

II. Translate *one* of the following passages:

(*a*) *Hector is encouraged by Aeneas to send a spy to the Greek lines. Dolon offers to go.*

ΑΙΝ. πέμφ' ὡς τάχιστα· νῦν γὰρ ἀσφαλῶς φρονεῖς.
σὺν σοὶ δ' ἔμ' ὄψει καρτεροῦνθ' ὅσ' ἂν δέῃ.
ΕΚ. τίς δῆτα Τρώων οἳ πάρεισιν ἐν λόγῳ
θέλει κατόπτης ναῦς ἐπ' Ἀργείων μολεῖν;
τίς ἂν γένοιτο τῆσδε γῆς εὐεργέτης;
τίς φησιν; οὔτοι πάντ' ἐγὼ δυνήσομαι
πόλει πατρῴᾳ συμμάχοις θ' ὑπηρετεῖν.
ΔΟΛ. ἐγὼ πρὸ γαίας τόνδε κίνδυνον θέλω
ῥίψας κατόπτης ναῦς ἐπ' Ἀργείων μολεῖν,
καὶ πάντ' Ἀχαιῶν ἐκμαθὼν βουλεύματα
ἥξω· 'πὶ τούτοις τόνδ' ὑφίσταμαι πόνον.
ΕΚ. ἐπώνυμος μὲν κάρτα καὶ φιλόπτολις
Δόλων· πατρὸς δὲ καὶ πρὶν εὐκλεᾶ δόμον
νῦν δὶς τόσῳ τέθεικας εὐκλεέστερον.

Or,

(*b*) *Priam brings the body of Hector back to Troy at dawn.*

Ἠὼς δὲ κροκόπεπλος ἐκίδνατο πᾶσαν ἐπ' αἶαν·
οἱ δ' εἰς ἄστυ ἔλων οἰμωγῇ τε στοναχῇ τε
ἵππους, ἡμίονοι δὲ νέκυν φέρον. οὐδέ τις ἄλλος
ἔγνω πρόσθ' ἀνδρῶν καλλιζώνων τε γυναικῶν·
ἀλλ' ἄρα Κασσάνδρη, ἰκέλη χρυσέῃ Ἀφροδίτῃ,
Πέργαμον εἰσαναβᾶσα, φίλον πατέρ' εἰσενόησεν,
ἑσταότ' ἐν δίφρῳ, κήρυκά τε ἀστυβοώτην·
τὸν δ' ἄρ' ἐφ' ἡμιόνων ἴδε κείμενον ἐν λεχέεσσιν·
κώκυσέν τ' ἂρ' ἔπειτα, γέγωνέ τε πᾶν κατὰ ἄστυ·
"Ὄψεσθε, Τρῶες καὶ Τρωάδες, Ἕκτορ' ἰόντες,
εἴποτε καὶ ζώοντι μάχης ἐκ νοστήσαντι
χαίρετ'· ἐπεὶ μέγα χάρμα πόλει τ' ἦν, παντί τε δήμῳ.
Ὣς ἔφατ'· οὐδέ τις αὐτόθ' ἐνὶ πτόλεϊ λίπετ' ἀνήρ,
οὐδὲ γυνή· πάντας γὰρ ἀάσχετον ἵκετο πένθος·
ἀγχοῦ δὲ ξύμβληντο πυλάων νεκρὸν ἄγοντι.

SECOND PAPER—Two Hours.

I. For Greek Prose Composition.

Wise men often appear foolish to the unlearned; and the wiser they are, the more foolish they appear. Who has not heard of the philosopher Socrates, who when condemned to death by the Athenians refused to escape from the prison, although earnestly entreated by his friend Crito? For he compared himself to a soldier on guard, and would not quit his post until God commanded him. Therefore he remained in prison; and during the whole of that day discoursed beautifully about the immortality of the soul, and toward evening was put to death without fear or complaint.

II. GRAMMAR.

1. (*a*) Give the following parts of verbs (*N.B.*, only *one* form is asked for in each case):

(i) Perfect infinitive passive of *πείθειν, δέρειν, λέγειν, διδόναι.*

(ii) Future participle (masc. sing. nom.) of *λαγχάνω, τρέφω, ἀποθνήσκω, νομίζω.*

(iii) 3rd plural imperfect indicative active of *ἀπαντᾶν, πλεῖν, τιθέναι, ἰέναι.*

(iv.) 2nd singular aorist subjunctive passive of *κελεύω, ἀπατῶ, κωλύω, βαστάζω.*

(*b*) Parse, giving the 1st person singular present indicative active of the verb to which each form belongs: *ἐπήρθη, ἀνέλοιμεν, λήψει, παραβάς, ἐπιτετράφθαι, σπεισάμενοι, ὑποδήσασθαι, μεθεκτέον.*

2. (*a*) Give the Greek for *thence, there, thither;* and form corresponding adverbs from Ἀθῆναι ("from Athens," "at Athens," "to Athens").

(*b*) Give the scansion of the following lines:

(1) *ἐχθρὸς γάρ μοι κεῖνος ὁμῶς Ἀίδαο πύλησιν*
ὅς χ' ἕτερον μὲν κεύθῃ ἐνὶ φρεσίν, ἄλλο δὲ εἴπῃ.
(2) *τὸν αὐτὸς αὑτοῦ πατέρα τόνδ' ἀπήλασας*
κἄθηκας ἄπολιν καὶ στολὰς ταύτας φορεῖν.

3. Translate into Greek:

(*a*) Greece is mountainous (or "has many mountains").
(*b*) Greece defeated Persia.
(*c*) I prefer the city to the country.
(*d*) The whole city is angry with you.
(*e*) Gold is better than silver.
(*f*) They wronged him more than the Lacedaemonians did.

4. Translate, with a note on the construction, *any four* of the following:

(*a*) *τυπτόμενος πολλὰς πληγάς.*
(*b*) *ἔφη τρίτος αὐτὸς στρατηγεῖν.*
(*c*) *οὓς ἴδοι εὐτάκτως ἰόντας, ἐπῄνει.*
(*d*) *ἁπλᾶς δὲ λύπας ἐξὸν, οὐκ οἴσω διπλᾶς.*
(*e*) *εὐδαιμονοίης, μισθὸν ἡδίστων λόγων.*
(*f*) *ὅπως οὖν ἔσεσθε ἄνδρες ἄξιοι τῆς ἐλευθερίας.*

LOWER MATHEMATICS—THREE HOURS.

Candidates may obtain FULL *marks by doing about two-thirds of this paper, but the examiners may reject a candidate who shows exceptional weakness in any of the sections* A, B, C.

Marks will not be given to answers where work is not shown.

A.

1. Find the G.C.M. of 6251 and 7847; and explain briefly the principle on which your process is founded.

2. A certain bankrupt estate paid 6s. 6d. in the pound. What was the full claim of a creditor who was ultimately paid £350. 5s. 6d.?

3. A merchant buys 6 tons 13 cwts. of coals at 19s. per ton, and 11 tons 5 cwts. at 23s. per ton, and mixes the two lots. At what price per ton must he sell the mixture so as to realize a profit of 5 per cent.?

4. If it cost £5·673 to paper the walls of a room 12·3 feet long, 8·7 feet wide, and 9 feet high, find to the nearest penny the cost of papering in the same style a room 15·4 feet long, 10 feet wide, and 9·5 feet high.

5. How many kilograms of water will a cistern hold which is 6·723 metres long, 2·56 metres wide, and 3·182 metres deep? A gramme is the weight of a cubic centimetre of water, and accuracy to the nearest gramme is required.

6. Half of a man's capital is invested so as to bring a return of 5% of interest, the other half so as to bring 3%. His income-tax bill, at the rate of 1s. 6d. per pound, is £56. 2s. 6d. Calculate the amount of his capital to the nearest pound.

B.

7. Simplify and arrange according to powers of x,

$$(x-a)(x+b-c)+(x-b)(x+c-a)+(x-c)(x+a-b);$$

and find the value of the function when $x=1$, $a=2$, $b=3$, $c=-5$.

8. Divide $x^4+px^3+qx^2+1$ by $(x+1)^2$, and state the conditions that the division be exact.

9. Express the following as a fractional function of x at its lowest terms:

$$\frac{x^2}{x^2+1}-\frac{x+1}{2x^2-2x}+\frac{x-1}{2x^2+2x}+\frac{x^2-1}{x^4-1}.$$

10. Show that the problem to resolve x^2+px+q into two integral factors, each of the first degree in x, is equivalent to the problem to find two quantities u and v, such that

$$u+v=p, \quad uv=q.$$

Resolve each of the following into as many factors as you can:

(i) $6x^2-11x+3$; (ii) $x^6-3x^4+3x^2-1$.

11. Explain how to derive from the system of equations

$$3x-2y-1=0, \quad 4x-3y-1=0,$$

another system which has the same solution, and apply the process to solve the given system.

Solve

$$x^2-1-\frac{(x^2+1)^2}{x^2-1}=\frac{1}{x-1}+\frac{3}{x+1}.$$

12. One side of a right-angled triangle is 2 feet long, and the projection of the other side on the hypotenuse is 3 feet long. Find the projection on the hypotenuse of the side whose length is 2 ft.; and hence find the other side.

C.

13. State the actual steps by which you would use the ruler and compass to bisect a given straight line; and give a proof of your construction.

ABC is a triangle inscribed in a circle. AD, perpendicular to BC, meets the circle in Q; and BE, perpendicular to AC, meets AD in P. Prove that D bisects PQ. (Use the proposition that angles in the same segment of a circle are equal.)

14. Prove that the sum of the external angles of any convex non-crossed polygon is four right angles.

$ABCDE$ are the vertices (taken in order) of a regular pentagon; and the crossed polygon $ACEBDA$ is formed. Find the number of degrees in the angle A.

15. Define the tangent to a circle: and deduce from its definition and from the definition of the circle that the tangent at any point is perpendicular to the radius.

Show how to construct a circle which passes through a given point, and touches a given straight line at a given point.

16. The perpendicular from the centre of a circle on any chord of the circle bisects it.

Prove that the locus of the points of bisection of all the chords of a circle that pass through a given external point is a circle.

17. Prove that the sum of the squares on two sides of a triangle is double the sum of the squares on the median and on half the base.

In the triangle ABC, $BC=1$, $CA=3$, $AB=3$. If P be a point in BC, such that $CP=3BP$, calculate AP to three places of decimals.

18. Prove that parallelograms, and also triangles, on the same base and between the same parallels are equal in area.

In the quadrilateral $ABCD$, AB is parallel to CD, and AD perpendicular to AB. Given that $AB=5$, $BC=12$, and $AD=10$, calculate the area of the figure to two places of decimals.

INTERMEDIATE AND HIGHER MATHEMATICS.

FIRST PAPER—Two Hours.

Candidates may obtain FULL *marks by doing about two-thirds of this paper, but the examiners may reject a candidate who shows exceptional weakness in any of the Sections* A, B, C.

The pass mark for Intermediate candidates is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the Intermediate Standard; but such candidates will receive credit for any question they may answer.

Marks will not be given to answers where work is not shown.

(640 acres in 1 square mile.)

A.

1. On a map of level country a length of 1 inch represents 4 miles. What area, to the nearest acre, is represented by a square portion of the map, the length of whose side is ·05 inch; and what area on the map, expressed as a decimal of 1 sq. inch, will represent a farm of 800 acres?

2. What algebraical laws and definitions are involved in the arithmetical transformation $\frac{1}{2}+\frac{1}{3}=\frac{5}{6}$?

Expand and arrange

$$(x^2+y^2+z^2)(a^2x^2+b^2y^2+c^2z^2)-p^2y^2z^2-q^2z^2x^2-r^2x^2y^2$$

according to powers and products of powers of x, y, z; and show that the function is the square of an integral function of x, y, z, provided $p^2=(b-c)^2$, $q^2=(c-a)^2$, $r^2=(a-b)^2$.

3. Represent graphically the general features of the variation in the value of the function $\frac{x}{5}+\frac{10}{x}$ while x increases from 1 to 20.

4. Determine a and b so that $(x-y+a)(x+y+b)$ may be identical with $x^2-y^2+2x+4y-3$.

Why is the general problem of which this is a particular case not usually soluble?

Factorise, as far as you can,

$$x^3-a^3+3a(x+a)^2-12a^2x.$$

5. Solve the equations:

$$\text{(i)}\ x+y+z=n,\quad \frac{x}{b+c-a}=\frac{y}{c+a-b}=\frac{z}{a+b-c};$$

$$\text{(ii)}\ 2x^2+3xy=27,\quad xy+y^2=4.$$

6. ABC is a triangle, in which C is a right angle, $BC=6$, and $CA=12$. P is a point in AB, and L and M its projections on BC and CA respectively; find the lengths of PL and PM when P is so situated that $LM=\sqrt{45}$.

7. If $z=a-a^2/y$, $y=a-a^2/x$, show that $x=a-a^2/z$.

8. Express

$$(1+2\times 3^{\frac{1}{3}}+3^{\frac{2}{3}})^2+(1-2\times 3^{\frac{1}{3}}+3^{\frac{2}{3}})^2$$

as a sum of terms, each of which is either an integral number or the cube root of an integral number.

B.

9. The exterior angle of any triangle is equal to the sum of the two interior and opposite angles; and the three angles of a triangle are together equal to two right angles.

ABC is a triangle, right-angled at B. On AC points D, E are take such that $AD=AB$, and $CE=CB$. Show that the angle DBE is hal a right angle.

10. Give a construction for the common tangents to two given circles.

Two circles touch internally at O. A variable line through O meets the two circles in P and Q respectively; find the locus of the middle point of PQ.

11. If two triangles are similar, the ratio of their areas is the duplicate ratio of their corresponding sides.

$ABCD$ is a square, and points E, F, G, H are taken in the sides AB, BC, CD, DA, so that AE, BF, CG, DH are each equal to one fifth of the side of the square. Show that the area $EFGH$ is seventeen twenty-fifths of the area $ABCD$.

12. Prove that the four diagonals of a parallelopiped intersect in a single point.

$ABCDA'B'C'D'$ is a rectangular parallelopiped, of which AA', BB', CC', DD' are parallel edges. A plane perpendicular to the face $ADD'A'$ meets the edges AA', BB', CC', DD' in E, F, G, H respectively. If $AB=3$ feet, $BC=6$ ft., $AE=9$ ft., $DH=2$ ft., find the number of cubic feet in the solid $ABCDEFGH$.

C.

13. Trace the changes in the value of $\operatorname{cosec}\theta$ as θ increases from 0° to 360°.

Trace the graph of $y=\sin^2 x$.

14. Express $\sin^2 A-\sin^2 B$ as the product of two sines.

Prove that

$$\frac{1+\cos 2\theta+\sin 2\theta}{1-\cos 2\theta+\sin 2\theta}=\cot\theta.$$

15. Find the largest angle in the triangle whose sides are 8, 11, and 14 feet respectively.

Given $\log 2=\cdot 30103$, $\quad L\sin 46^\circ 48'=9\cdot 86271$,
$\log 17=1\cdot 23045$, $\quad L\sin 46^\circ 47'=9\cdot 86259$.

SECOND PAPER—Two Hours.

Candidates may obtain FULL *marks by doing about two-thirds of this paper, but the examiners may reject a candidate who shows exceptional weakness in any of the Sections* A, B, C.

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A.

1. The resistance of a wire, whose length is l centimetres, and whose cross-section is s square centimetres, is equal to $\lambda l(1+\alpha t)/s$ ohms, where t is its temperature in degrees centigrade, $\alpha=\cdot 013$, and λ a constant depending on the substance. It is found that the resistance at temperature 10° C. is 9 ohms when the length is 300 cm., and the section $\cdot 1$ sq. cm. Find to two places of decimals the resistance at 25° C. of a wire of the same substance 650 cm. long, whose cross-section is $1\cdot 1$ sq. cm.

2. Find to one place of decimals the ratio of a to b from the following equation:

$$a=1\cdot 368\,\frac{a^4-b^4}{a^3}.$$

Express the square root of

$$x^2+\frac{1}{x^2}-1+2\left(x-\frac{1}{x}\right)$$

as a rational function of x.

3. Explain graphically, or otherwise, why the two equations

$$3x+5y-15=0, \quad 9x+15y-135=0$$

have no finite common solution.

Solve $$\frac{1}{x-a}+\frac{1}{x-b}+\frac{1}{x-c}=\frac{3x^2}{(x-a)(x-b)(x-c)}.$$

4. Show that the condition that the equations

$$x^2-2ax+b=0, \quad x^2-2bx+a=0$$

have one common root is $4a+4b+1=0$.

If the roots of $x^2-px+q=0$ differ by unity, prove that $p^2-4q-1=0$.

5. Solve the equation:

$$\sqrt{\{(x+1)(2x-1)\}}+\sqrt{\{(x-1)(2x+1)\}}=\sqrt{(4x^2+2)}.$$

6. If £x. ys. exceed £y. xs. by £2. 17s., ys. zd. exceed zs. yd. by 11d., and the sum of all four amounts is £25. 3s. 7d., find x, y, z.

7. Find a formula for the amount of £p in n years at r% compound interest, convertible (payable) annually.

If in 20 years £100 amounts to £150 at compound interest, convertible annually, what is the rate per cent.?

Given log 15 = 1·1760913, and log 102·04 = 2·0087704, diff. 426.

Or, as an alternative, Simplify

$$\frac{1}{(a-b)(a-c)(1+ax)}+\frac{1}{(b-c)(b-a)(1+bx)}+\frac{1}{(c-a)(c-b)(1+cx)}.$$

B.

8. Describe a circle passing through three given points.

Is this always possible?

If I be the incentre of the triangle ABC, and AI produced cut the circumcircle of the same triangle in D, show that DI, DC, DB are all equal.

9. The opposite angles of a quadrilateral inscribed in a circle are supplementary.

If lines drawn to bisect two opposite angles of a quadrilateral inscribed in a circle meet the circumference in X and Y, show that XY is a diameter.

10. Prove that the sum of the squares on the sides about an acute angle of a triangle exceeds the square on the side opposite the angle by twice the rectangle contained by either of the two sides and the projection on it of the other.

In the triangle ABC, $BC=7$, $CA=8$, $AB=6$. D is the projection of A on BC. Calculate AD and CD, and show that the area of the triangle is $\frac{7}{4}\sqrt{135}$.

11. Explain how the theory of loci is used in constructing points in a plane subject to two given conditions.

Given two circles whose centres are A and B, show how to draw a line PQ of given length parallel to AB, so that P shall lie on one of the circles, and Q on the other.

C.

12. Prove that $\sec^2\theta = 1 + \tan^2\theta$.

Solve completely the equation

$$3\tan^2\theta + 3\cot^2\theta = 10.$$

13. If $p\tan\theta = q$, prove that $p\cos 2\theta + q\sin 2\theta = p$.

If a, b be two sides, and A, B the opposite angles in any triangle, prove that

$$\frac{a-b}{a+b} = \frac{\tan\frac{1}{2}(A-B)}{\tan\frac{1}{2}(A+B)}.$$

14. A man whose eye is 6 feet above the level of a lake sees the top of a tree growing on an island in the lake at an elevation of 15° 22′ above the horizon, and the reflection of the top in the water at a depression of 22° 10′. Find to the nearest foot the distance of the tree. Given tan 15° 22′ = ·2748, tan 22° 10′ = ·4074.

FRENCH.

FIRST PAPER—One Hour and a Half.

Translate into French :

(*a*) Of all the figures in that large family group which surrounded George and his Queen, the prettiest, I think, is the father's darling, the Princess Amelia, pathetic for her beauty, her sweetness, her early death, and for the extreme passionate tenderness with which her father loved her. This was the favourite amongst all the children ; of his sons, he loved the Duke of York best. Burney tells a sad story of the poor old man at Weymouth, and how eager he was to have this darling son with him. The King's house was not big enough to hold the Prince ; and his father had a portable house erected close to his own, and at huge pains, so that his dear Frederick should be near him. He clung on his arm all the time of his visit ; talked to no one else ; had talked of no one else for some time before. The prince, so long expected, stayed but a single night. He had business in London the next day, he said. The dulness of the old King's Court stupefied York and the other big sons of George III. Of little comfort, indeed, were the King's sons to the King.

(*b*) 1. The battle of Crecy was the greatest disaster the French had suffered during the first period of the war.

2. If you tried ever so hard to get in, you would not succeed.

3. He wrote him that, unless he came at once, he need not come at all.

4. Whatever else he may be, he is neither a coward nor a liar.

5. He was no sooner released from prison than he started on a fresh career of crime.

SECOND PAPER—Two Hours.

Translate :

(*a*) Un grand philosophe d'un petit bourg, qui se nommait Bias, ou autrement, disait fièrement : "Je porte tout avec moi." Aussi léger de baggage, à la fierté près, que ce sage de la Grèce, je cheminais le nez au vent, cherchant un gîte, attendu qu'il n'y a pas de philosophie qui tienne contre une nuit de Janvier passée à la belle étoile, et de patience de propriétaire qui dure contre un locataire qui ne paie pas son terme, quand mes yeux se fixèrent sur un écriteau, où se lisait en lettres pompeuses : "Appartement à louer." C'est là ce qu'il me faut, me dis-je, en grommelant quelques mots à un honnête concierge qui, aussitôt, entreprit une longue énumération des avantages de ce logement précieux, qui, entre autres, m'assura-t-il, jouit de la plus belle vue de Paris. . . . Je le crois bien, c'est au sixième, et il n'y a que cent soixante-douze marches à monter. . . . Je les franchis d'un saut (manière de parler qu'il ne faut pas prendre à la lettre), et un coup d'œil me suffit pour examiner cet appartement, qui se réduisait à une petite pièce mansardée, de six pieds carrés, où le jour ne pénétrait qu'à travers l'épais rideau de neige qui couvrait une croisée s'ouvrant en tabatière. C'est là, qu'en dressant dans les règles un état des lieux, je découvris, dans un coin de la cheminée, ce manuscrit, qui semblait avoir été condamné à périr par le feu. Devais-je l'abandonner aux flammes ? c'est ce que le lecteur décidera, quand il aura parcouru ce livre, fruit de vingt ans de méditations d'un arrière-petit-neveu du célèbre oncle Tobie.

—EMILE DE GIRARDIN.

(*b*) . . . Il n'est esprit si droit
Qui ne soit imposteur et faux par quelque endroit :
Sans cesse on prend le masque, et, quittant la nature,
On craint de se montrer sous sa propre figure.
Par là le plus sincère assez souvent déplaît.
Rarement un esprit ose être ce qu'il est.
Vois-tu cet importun que tout le monde évite,
Cet homme à toujours fuir, qui jamais ne nous quitte?
Il n'est pas sans esprit : mais, né triste et pesant,
Il veut être folâtre, évaporé, plaisant ;
Il s'est fait de sa joie une loi nécessaire,
Et ne déplaît enfin que pour vouloir trop plaire.
Le faux est toujours fade, ennuyeux, languissant :
Mais la nature est vraie, et d'abord on la sent ;
C'est elle seule en tout qu'on admire et qu'on aime.
Un esprit né chagrin plaît par son chagrin même.
Chacun pris dans son air est agréable en soi :
Ce n'est que l'air d'autrui qui peut déplaire en moi.

—BOILEAU.

II. GRAMMAR.

1. Construct short sentences in French, illustrative of the use of *tout* (*a*) as an adjective ; (*b*) as a substantive ; (*c*) as a pronoun ; (*d*) as an adverb ; and give the English of these sentences. Translate into French : She laughed at all I said.

2. Show the difference between : *le gardien* and *the guardian ; la lecture* and *the lecture ; la défiance* and *defiance ; la rente* and *the rent ;* the English and the French *sensible.*

3. Form short sentences to show the use of these conjunctions : *à moins que ; quoique ; dès que ; afin que ; de peur que.* Add the English translation of these sentences.

III. PHILOLOGY AND LITERATURE.

(*Only* ONE *question to be answered.*)

1. Give the derivation and meaning of any five of the following words : *emportement, entêté, aventure, étonner, jeudi, dont, avaler, palais.*

2. Show how the Latin Future and Pluperfect, active and passive, have been replaced in French. Explain also the formation *constamment* instead of *constantement.*

3. Describe the two principal characters of any French work you have read.

4. State briefly what you know of one of the following authors : Diderot, Beaumarchais, A. de Musset, Mérimée.

GERMAN.

FIRST PAPER—ONE HOUR AND A HALF.

(*The candidates may use either English or German script.*)

Translate into German :

(*a*) Becket passed the remainder of the day at Sandwich. The next morning he set out for his Cathedral. Six years he had been absent, and for all those years his name had been a household word in castle and parsonage, grange and cabin. In England people sympathise instinctively with every one who opposes the Crown, and between Sandwich and Canterbury Becket was among his own tenants, to whom he had been a gentler master than Ranulf de Broc. The brief winter day's ride was one long triumphal procession. Old men, women and children lined the roads on their knees to beg his blessing. The clergy came at the head of their parishioners with garlands and banners. Boys chanted hymns. Slowly, at a foot's pace, the archbishop made his way among the delighted multitudes. It was evening before he reached Canterbury. He went direct to the cathedral.—FROUDE.

(*b*) (1) Although I did not agree with the speaker, I could not help admiring him.

(2) My father died so long ago, that I have almost forgotten what he was like.

(3) I intend to do as much work as possible this year.

(4) He followed them wherever they went.

(5) He said he would not come, because he should have been invited sooner.

SECOND PAPER—Two Hours.

(*The candidates may use either English or German script.*)

I. Translate into English:

(*a*) Unſere Reiſenden hatten durch große Umwege den Belagerungskreis von Dillenburg vermieden, ſo geſchah es, daß ſie erſt am ſpäten Nachmittage in Beilſtein den erſten Halt machen konnten. Jetzt ein Dorf, war Beilſtein zu ſelbiger Zeit noch ein Städtchen; das gräfliche Schloß mit den ſtolzen Strebepfeilern an den hohen Mauern drohte freilich den Verfall und war nur noch von einem Amtmanne bewohnt. Im Schloßgarten trieben die verſchnittenen Hainbuchen und Linden bereits wilde Sproſſen über die geraden Linien der alten Gartenkunſt hinaus, da ſeit Jahren keine Schere mehr über ſie gekommen. Das Städtchen liegt tief im Thalgrund, und die Höhen ringsum ſind ödes Heideland, mit Baſaltblöcken überſät, zwiſchen denen niederes Gebüſch verſtreut iſt—eine recht Weſterwälder Landſchaft. Und heute hatte der Regenhimmel noch ſeinen grauen Ton darüber gebreitet, daß der öde Grund wie gemacht war für die Scene, die ſich jetzt auf demſelben entwickeln ſollte.

—Riehl.

(*b*)
Wer wollte ſich mit Grillen plagen
Solang' uns Lenz und Jugend blühn?
Wer wollt' in ſeinen Blütentagen
Die Stirn in düſtre Falten ziehn?
Noch rinnt und rauſcht die Wieſenquelle,
Noch iſt die Laube kühl und grün,
Noch ſcheint der liebe Mond ſo helle,
Wie er durch Adams Bäume ſchien.
Noch tönt der Buſch voll Nachtigallen
Dem Jüngling ſüße Fühlung zu,
Noch ſtrömt, wenn ihre Lieder ſchallen,
Selbſt in zerrißne Seelen Ruh.
O wunderſchön iſt Gottes Erde
Und wert darauf vergnügt zu ſein;
Drum will ich, bis ich Aſche werde,
Mich dieſer ſchönen Erde freun!

—Hölty.

II. GRAMMAR.

1. Give with the definite article and meaning, genitive singular and nominative plural of the following: *Schiff*, *Bergmann*, *Brett*, *Auge*, *Gespenst*.

2. Form and translate sentences to illustrate the cases or prepositions required by: *bedürfen*, *denken*, *sich rühmen*, *sich freuen*, *sich sehnen*.

3. Translate:
(1) During the day it rained continuously.
(2) In spite of my warning he refused to go.
(3) The book lay on the table, under a number of papers.
(4) Instead of going home, he went to the theatre.
(5) The dog crawled out from below the table.

III. PHILOLOGY AND LITERATURE.

(*Only* ONE *question to be answered.*)

1. Explain the force of the prefixes and suffixes in five of the following words: *entkommen*, *erweitern*, *besteigen*, *verbessern*, *zerstören*, *einsam*, *bläulich*, *sonderbar*, *zornig*, *königlich*.

2. Give five instances of adverbs formed from the genitive singular of nouns.

3. Describe the two principal characters in any work you may have read.

4. Give a short account of the works of Heine, or of J. P. Richter, or of Körner.

5. Describe the contents of any of the longer poems of Schiller, Goethe, Uhland.

ITALIAN.

FIRST PAPER—ONE HOUR AND A HALF.

Translate into Italian:

(*a*) Diderot's robust faith in nature, that finest fruit of the scientific spirit, comes out again and again.

Not many men have had so much reason as Diderot for becoming misanthropic; few men have had in them less of the misanthrope. "My life is not stolen from me," he writes; "I give it. . . . A pleasure which is for myself alone touches me slightly. It is for myself and for my friends that I read, that I reflect, that I write, that I meditate, that I observe, that I feel. . . . I have consecrated to them the use of all my senses, and that is perhaps the reason why everything is a little enriched in my imagination and conversation; sometimes they reproach me, ungrateful as they are. Ungrateful! would I could make hundreds ungrateful every day!"

(*b*) I imagine they would rather have his room than his company.
It is no use crying over spilt milk.
The road goes winding over the hills for several miles.

SECOND PAPER—Two Hours.

I.

Translate into English :

(*a*) La Vita è Missione ; e quindi il Dovere è la sua legge suprema. Nell' intendere quella missione e nel compiere quel dovere sta per noi il mezzo d' ogni progresso futuro.

La Vita è immortale ; ma il modo e il tempo delle evoluzioni attraverso le quali essa progredirà è in nostre mani. Ciascuno di noi deve purificare, come tempio, la propria anima da ogni egoismo, considerare il problema della vita, studiare qual sia il più urgente bisogno degli uomini che gli stanno d' intorno, poi interrogare le proprie facoltà e adoperarle risolutamente, incessantemente, col pensiero, coll' azione, per tutte le vie che gli sono possibili, al soddisfacimento di quel bisogno.

—Mazzini.

(*b*)
—Mi chiamo Giapo, chi saper lo vuole—
Gli anni belli ho già varcato ;
Di mia strada or tocco al fin.
Qui tra 'l verde pergolato
Del mio picciolo giardin
Tremola il sole.
—Son di Sicilia, chi saper lo brama—
Ebbi il riso de' miei piani,
La dolcezza del mio ciel,
Il fervor de' miei vulcani ;
E si tenne a me fedel
Più d' una dama.

—Prati.

II. Grammar.

1. Translate with notes : *Quel pittore che ha goffe mani le farà simili nelle sua opere, se 'l lungo studio non glielo vieta.* (Leonardo.)

2. Give the comparative and superlative of *buono*, *cattivo*, *alto*, *basso*, *grande*, *piccolo*.

3. Translate : He has asked ; he has grown ; he has gone.

III. Philology and Literature.

(One *question only to be answered.*)

1. Explain the formation and use of these words : *alterezza*, *alterigia*, *superbia*.

2. Give the subject-matter of one of the following works :
Dante : *La Vita Nuova.*
L. Da Porto : *Giulietta e Romeo.*
Manzoni : *I Promessi Sposi.*
Goldoni : *La Locandiera*, or any other comedy by the same author.

3. Give a sketch of the life of Dante, or of Benvenuto Cellini, or of Leopardi.

HEBREW.

FIRST PAPER—Two Hours.

I. Point and translate:

ויקרא אליו מלאך יהוה מן־השמים ויאמר אברהם
אברהם ויאמר הנני: ויאמר אל־תשלח ידך אל־
הנער ואל־תעש לו מאומה כי עתה ידעתי כי־ירא
אלהים אתה ולא חשכת את־בנך את־יחידך ממני:
וישא אברהם את־עיניו וירא והנה־איל אחר נאחז
בסבך בקרניו וילך אברהם ויקח את־האיל ויעלהו
לעלה תחת בנו: ויקרא אברהם שם המקום ההוא
יהוה יראה אשר יאמר היום בהר יהוה יראה:

II. Translate into Hebrew:

1. There are nine cities in this land wherein there is neither priest nor Levite.

2. If it be good in your eyes, send them away in peace, that they may go to their houses.

3. And she shall say 'Drink, and I will give thy camels also to drink.'

4. And Jacob said, 'Behold, I have heard that there is corn in Egypt; take therefore money in your hand, and go down thither and buy; for the famine is very great, and we have no bread to eat.'

5. So they returned each man to his own land.

SECOND PAPER—Two Hours.

1. Translate Genesis viii. 1—10.

2. In this passage parse—

וַיַּעֲבֵר v. 1, וַיִּסָּכְרוּ v. 2, שׁוֹב v. 3, וַתָּנַח v. 4, לַחֹדֶשׁ v 4, נִרְאוּ v. 5, מִקֵּץ v. 6, יְבֹשֶׁת v. 7, מֵאִתּוֹ v. 8, לִרְאוֹת v. 8, הֲקַלּוּ v. 8, וַיָּחֶל v. 10.

3. Join the suffixes meaning *my*, *his*, and *your* (m. pl.) to the sing. and plur. of

דָּבָר, מַלְכָּה, קֹדֶשׁ, and אֹיֵב.

4. Give examples of nouns with the article, to show all possible pointings.

DYNAMICS.—Three Hours.

(*Candidates may obtain* FULL *marks by doing about two-thirds of this paper. Marks will not be given to answers where work is not shown.*)

(A cubic foot of water weighs 1000 oz.)

1. Distinguish between speed and velocity of a moving particle.

A particle moves round a circle with a uniform speed of 4 ft. per second. What is its change of velocity by the time it has gone one-third round?

A certain accleration is 50 foot second units: what is its numerical value in mile hour units?

2. What is meant by the relative velocity of one body with respect to another? Explain how to find it.

To a person travelling Eastward at the rate of 4 mls. an hr., the wind appears to blow from the North: when he doubles his speed it appears to blow from a point 30° to the East of North. Find the speed and direction of the wind.

3. State Newton's Second Law of Motion. Define the Poundal.

A certain force acting on a mass of 12 lbs. for 4 secs. produces in it a velocity of 80 ft. per sec. Compare the force with the weight of one pound, and find the acceleration it would produce if it acted on a ton.

4. Define Work, and Rate of Work: and define the corresponding units used in the British and C.G.S. systems of units.

Find the Horse Power of an engine which will travel at the rate of 25 miles per hour up an incline of 1 in 100, the weight of the engine and load being 50 tons, and the resistances equal to the weight of 10 lbs. per ton.

5. Find the total time during which a body, thrown vertically into the air, remains above the point of projection. Shew that the time of ascent is the same as the time of descent.

A precipice is 1296 ft. high. A particle is let fall from its edge, and one second later another particle is thrown down after it with a velocity of 48 ft. per sec. Which reaches the bottom first, and how much sooner than the other? If the second particle passes the first, when and where does this take place?

6. Find the relation between the power and the weight in a system of three pulleys, where all the strings are attached to the weight, and the weight of each pulley is w.

Find the mechanical advantage, when the pulleys are four in number, and each is of weight one-fortieth that of the weight.

7. Shew that the acceleration of a body down a plane inclined to the horizon at an angle α is $g \sin \alpha - \mu g \cos \alpha$ where μ is the coefficient of friction between the body and the plane.

Find the work done in dragging a load of 100 lbs. up a rough inclined plane whose height is 4 ft. and base 15 ft., the co-efficient of friction being $\frac{3}{20}$.

8. Shew how to find, by resolution along two axes at right angles, the resultant of any number of forces acting in one plane on a particle. Deduce the two conditions of equilibrium which this method suggests.

A weight of 30 lbs. suspended by a string from a fixed point is drawn aside by a horizontal force till the string is inclined at an angle of 30° to the verticle. Find the magnitude of the force and the stretching force (tension) in the string.

9. Two unequal masses are connected by a light inextensible string passing over a smooth peg. Find the acceleration of the masses, and the stretching force (tension) in the string.

A weight of 16 oz. raises from rest a weight of 8 oz. by means of a string passing over a smooth peg. After 4 seconds the string is cut. How much higher does the 8 oz. weight continue to ascend before falling?

10. Prove that the moment of the resultant of two forces in one plane about any fixed point in that plane, is equal to the algebraical sum of the moments of the forces about the point.

A cube of stone whose edge is 3 ft. weighs 5000 lbs. and rests on one of its faces. A lever 6 ft. long can be pushed 6 inches underneath the lower face in a direction at right angles to an edge. What upward force must be exerted by a man at the end of the lever to just raise this edge from the ground?

11. Define the centre of mass of a body.

Find the centre of mass of three uniform rods of unequal length, joined together to form a triangle.

From a regular hexagonal plate of uniform thickness one of the equilateral triangles with its vertex at the centre, and a side for base, is cut away. Find the centre of mass of the remainder.

12. Explain the construction and use of the barometer.

Criticise the statement that the weight of the mercury column in the tube is balanced by the weight of the atmospheric column standing on the whole surface of the mercury in the cistern.

A tube filled with water is inverted with its open end in water, and the top of the tube is 12 ft. above the external water. If the water barometer stands at $33\frac{1}{2}$ ft., what is the pressure in lbs. per sq. inch at a point on the inside of the top of the tube?

13. Explain, by aid of a diagram, the action of the siphon, stating the conditions which must be fulfilled so long as it continues to work.

If a U tube manometer is to read pressures up to 4 atmospheres, what quantity (volume) of mercury will be required, the area of the cross-section of the tube being a quarter of a square inch and the height of the barometer 30 inches?

14. Find the magnitude of the resultant thrust of a liquid on a solid wholly or partially immersed in it.

A body whose mass is 100 grammes and volume 25 c.c. is suspended by a string so as to be completely immersed in a liquid of specific gravity 1·6. Find the stretching force in the string.

15. Distinguish between Density and Specific Gravity of a substance.

Describe one way in which the specific gravity of a solid may be found.

A piece of cork (sp. gr. ·25) weighs 4 oz.; it is fastened to a piece of brass (sp. gr. 8). Find the weight of the brass when the weight of the whole in water is 9 ounces.

II—FOR THE DEGREE OF M.A.

I. FOR ORDINARY DEGREE.

A.—DEPARTMENT OF LANGUAGE AND LITERATURE.

LATIN TRANSLATION—Two Hours.

1. Translate :

(*a*) Virg. *Aen.* VII. 341—358.
(*b*) Hor. *Odes* I. 6.

Remark on the syntax of lines 1 and 2.

(*c*) Hor. *Odes* III. 12.
(*d*) Hor. *Satires* II. 2. 114—132.
(*e*) Tac. *Ann.* XI. 7.

2. Translate and explain the following from Tacitus :

Et quanquam equites iudicia reciperavissent, quaestura tamen ex dignitate candidatorum aut facilitate tribuentium gratuito concedebatur donec sententia Dolabellae velut venundaretur.

LATIN PROSE—Two Hours.

Yet the bold hearts of the cavaliers, if for a moment dismayed by the sight, soon gathered courage as they closed up their files and prepared to open a way for themselves through the beleaguering host. But the enemy seemed to shun the encounter, and falling back at their approach, left a free entrance into the capital. The Peruvians were probably not unwilling to draw as many victims as they could into the toils, conscious that the greater the number the sooner they would become sensible to the approaches of famine. Hernando Pizarro (say *Hernandus*) greeted his brother with no little satisfaction ; for he brought an important addition to his force, which now, when all were united, did not exceed two hundred, horse and foot, besides a thousand Indian auxiliaries ; an insignificant number, in comparison with the countless multitudes that were swarming at the gates. That night was passed by the Spaniards with feelings of the deepest anxiety, as they looked forward with natural apprehension to the morrow.

PRESCOTT, *Conquest of Peru.*

LATIN GENERAL PAPER—Two Hours.

I. UNPREPARED TRANSLATION.

Cum ipsa per sese res anceps esset, prout cuiusque ingenium erat atrocius mitiusve suadentibus, tum incertiora omnia unus ex Privernatibus legatis fecit, magis condicionis, in qua natus esset, quam praesentis necessitatis memor, qui interrogatus a quodam tristioris sententiae auctore, quam poenam meritos Privernates censeret. ‘eam,’ inquit, 'quam merentur, qui se libertate dignos censent.' cuius cum feroci responso infestiores factos videret consul eos, qui ante Privernatium causam impugnabant, ut ipse benigna interrogatione mitius responsum eliceret: 'quid, si poenam,' inquit, 'remittimus vobis, qualem nos pacem vobiscum habituros speremus?' 'Si bonam dederitis,' inquit, 'et fidam et perpetuam; si malam, diuturnam.' tum vero minari, nec id ambigue, Privernatem quidam, et illis vocibus ad rebellandum incitari pacatos populos; pars mitior senatus ad meliora responsa trahere et dicere viri et liberi vocem auditam: an credi posse ullum populum aut hominem denique in ea condicione, cuius eum poeniteat, diutius, quam necesse sit, mansurum? ibi pacem esse fidam, ubi voluntarii pacati sint, neque eo loco, ubi servitutem esse velint, fidem sperandam esse.

II. Grammar.

1. Parse fully: *excita*, *velet*, *fis*, *ratus*.

2. Translate, with short notes on points of syntax:
(*a*) Uxor invicti Iovis esse nescis.
(*b*) Praetor aedem Iovi vovit si eo die hostes vicisset.
(*c*) Neque ille sepositi ciceris nec longae invidit avenae.
(*d*) Peream male si non optimum erat.

3. Scan the following lines, and name the measure:
(*a*) O fons Bandusiae splendidior vitro.
(*b*) Displicent nexae philyra coronae.
(*c*) Suis et ipsa Roma viribus ruit.
(*d*) Tempora populea fertur vinxisse corona.

III. History and Antiquities.

1. Describe briefly the economic crisis which necessitated the Agrarian Law of Tiberius Gracchus. What were the provisions of that Law?

2. Give some account of the Roman Constitution as re-organized by Sulla.

3. Give the dates and historical setting of the Battle of the Colline Gate, the Rullan Law, and the Battle of Carrhae.

4. Write explanatory notes upon four of the following terms: *recuperatores*, *suovetaurilia*, *legatio libera*, *praefectus urbi*, *ultimum decretum*.

GREEK TRANSLATION—Two Hours.

1. Translate:
(*a*) Hom. *Il.* XXI. 251—264.
(*b*) Hom. *Il.* XXII. 317—325.

2. Translate:
(*a*) Aesch. *Eum.* 397—407.
(*b*) Aesch. *Eum.* 916—925.

3. Translate :

(*a*) Plato, *Charm.* 169 A 7—D 2.
(*b*) Plato, *Lach.* 198 D, 1—5.

What is the place of this in the argument?

4. Translate Xen. *Oecon.* XX. §§ 16—18.

GREEK PROSE AND GRAMMAR.—Two Hours.

I. Translate into Greek :

Whoever considers England will find it no small favour of God to have been made one of its natives both upon spiritual and outward accounts. The happiness of the soil and air contribute all things that are necessary to the use or delight of man's life. The celebrated glory of this Isle's inhabitants ever since they received a mention in history, confers some honour upon every one of her children, and with it an obligation to continue in that magnanimity and virtue, which hath famed this island, and raised her head in glory, higher than the great kingdoms of the neighbouring continent. Britain hath been as a garden enclosed, wherein all things that men can wish to make a pleasant life, grow in her own soil, and whatsoever foreign countries yield to increase delight, are brought in by her fleets.—MRS. HUTCHINSON.

II. (1) Parse fully *ἄλεν, ᾐείδης, δειδέχατο, λελάχωσι.*

(2) Translate with notes on points of syntax, any *four* of these sentences.

(*a*) *οὐ γάρ οἵ τις ἐτήτυμος ἄγγελος ἐλθὼν*
ἤγγειλ' ὅττι ῥά οἱ πόσις ἔκτοθι μίμνε πυλάων.

(*b*) *παθοῦσα δ' οὕτω δεινὰ πρὸς τῶν φιλτάτων*
οὐδεὶς ὑπέρ μου δαιμόνων μηνίεται.

(*c*) *χρῆν νόμον εἶναι μὴ ἐρᾶν, ἵνα μὴ πολλὴ σπουδὴ ἀνηλίσκετο.*

(*d*) *ἀλλ' εἴ τι μὴ φέροιμεν ὤτρυνεν φέρειν.*

(*e*) *οἶμαι μέν, ἦν δ' ἐγώ, ληρεῖν με.*

(*f*) *ἐννοῶ γὰρ μὴ καὶ ὁ μειρακίσκος οὗτος οὐ τούτου ἐπιθυμεῖ.*

GREEK GENERAL PAPER.—Two Hours.

I. UNPREPARED TRANSLATION.

Τάδε περὶ τῶν ἀπίστων συγγέγραφα. ἀνθρώπων γὰρ οἱ μὲν εὐπειθέστεροι πείθονται πᾶσι τοῖς λεγομένοις, ὡς ἀνομίλητοι σοφίας καὶ ἐπιστήμης, οἱ δὲ πυκνότεροι τὴν φύσιν καὶ πολυπράγματοι ἀπιστοῦσι τὸ παράπαν μηδὲ γενέσθαι τι τούτων. ἐμοὶ δὲ δοκεῖ γενέσθαι πάντα τὰ λεγόμενα (οὐ γὰρ ὀνόματα μόνον ἐγένοντο, λόγος δὲ περὶ αὐτῶν οὐδεὶς ὑπῆρξεν· ἀλλὰ πρότερον ἐγένετο τὸ ἔργον, εἶθ' οὕτως ὁ λόγος ὁ περὶ αὐτῶν)· ὅσα δὲ εἴδη καὶ μορφαὶ εἰσι λεγόμεναι καὶ γενόμεναι τότε, αἳ νῦν οὐκ εἰσί, τὰ τοιαῦτα οὐκ ἐγένοντο. εἰ γάρ τι ποτε καὶ ἄλλοτε ἐγένετο, καὶ νῦν τε γίνεται καὶ αὖθις ἔσται. ἀεὶ δὲ ἔγωγε ἐπαινῶ τοὺς συγγραφέας Μέλισσον καὶ Λαμίσκον τὸν Σάμιον "ἐν ἀρχῇ" λέγοντας "ἔστιν ἃ ἐγένετο, καὶ νῦν ἔσται." γενομένων δέ τινα οἱ ποιηται *καὶ λογογράφοι παρέτρεψαν εἰς τὸ ἀπιστότερον καὶ θαυμασιώτερον, τοῦ θαυμάζειν ἕνεκα τοὺς ἀνθρώπους. ἐγὼ δὲ γινώσκω ὅτι οὐ δύναται τὰ τοιαῦτα εἶναι οἷα καὶ λέγεται· τοῦτο δὲ καὶ διείληφα, ὅτι, εἰ μὴ ἐγένετο, οὐκ ἂν ἐλέγετο. ἐπελθὼν δὲ καὶ πλείστας χώρας ἐπυνθανόμην τῶν πρεσβυτέρων ὡς ἀκούοιεν περὶ ἑκάστου αὐτῶν, συγγράφω δὲ ἃ ἐπυθόμην παρ' αὐτῶν. καὶ τὰ χωρία αὐτὸς εἶδον ὡς ἔστιν ἕκαστον ἔχον, καὶ γέγραφα ταῦτα οὐχ οἷα ἦν λεγόμενα, ἀλλ' αὐτὸς ἐπελθὼν καὶ ἱστορήσας.*

II. HISTORY AND LITERATURE.

(FOUR *questions should be attempted.*)

1. Give some account of the Homeric Simile with examples from *Iliad* XXI. or XXII.

2. What do you know of the religious ideas of Aeschylus?

3. Consider the foreign and domestic policy of Pericles.

4. Date, and briefly explain the importance of, (*a*) The Peace of Antalcidas, (*b*) The Battle of Leuctra, (*c*) The Sacred War.

5. Write a brief account of Cimon, Prodicus, Antiphon, Xenophon, Eubulus Phocion (any four).

Or,

Scan the following lines, remarking on any metrical peculiarities:

'Ιλίου προπάροιθε πυλάων τε Σκαιάων
τό οἱ ὑπὸ λαπάρην τέτατο μέγα τε στιβαρόν τε
δεῦτε, δύω μοι ἕπεσθον, ἴδωμ' ὅτιν' ἔργα τέτυκται.

HEBREW.

FIRST PAPER—THREE HOURS.

1. Point and translate:

ויעמד שטן על־ישראל ויסת את־דויד למנות את־ישראל: ויאמר דויד אל־יואב ואל־שרי העם לכו ספרו את־ישראל מבאר שבע ועד־דן והביאו אלי ואדעה את־מספרם: ויאמר יואב יוסף יהוה על־עמו כהם מאה פעמים הלא אדני המלך כלם לאדנו לעבדים למה יבקש זאת אדני למה יהיה לאשמה לישראל: ודבר המלך חזק על־יואב ויצא יואב ויתהלך בכל־ישראל ויבא ירושלם: ויתן יואב את־מספר מפקד־העם אל־דויד ויהי כל־ישראל אלף אלפים ומאה אלף איש שלף חרב ויהודה ארבע מאות ושבעים אלף איש שלף חרב:

2. Translate into idiomatic Hebrew:

When Saladin had done all these things at Jerusalem, he went and encamped against Tyre, which is in the midst of the sea; and he built strong towers against it, and brought out all his force in the war against it. He also incited his troops, saying that the Franks had no longer any place on this side of the sea where they might lay their heads, except Tyre, and that, if it were taken, their hope from the expedition would be shattered. But since the prince who came from Rome had fortified it well with ditches,[1] and since brave men were continually coming out and massacring the Arabs and returning, especially in ships by sea, Saladin sent to Egypt and brought thence great ships, and stationed them opposite the harbour[2] of Tyre. Then one night the sailors went out in swift boats and broke many of the great ships, and captured two famous Moorish commanders; and of the rest, some threw themselves into the sea and were drowned, while others began to flee towards Bairût.

[1] ditch, תְּעָלָה. [2] harbour, מחסה.

3. State (1) what is known as to the earliest practice of writing among the Hebrews; and (2) the chief steps in the process through which the Massoretic text came into its present form.

4. Describe briefly the condition of the Hebrew people at the death of Joshua, and sketch the history from that time till the time of the prophet Hosea. What have you to say about the history of the literature up to that time?

SECOND PAPER—THREE HOURS.

I. (1) Describe the literary form, and indicate the main divisions, of the book of Judges. How does it stand related to the book of Joshua?

(2) Translate Judges ix. verses 46-52 inclusive.

(*a*) Parse ויעל, וישאה, and מהרו in verse 48; ויציתו in verse 49; ויחן in verse 50; and וילחם in verse 52.

(*b*) Give the different meanings of בעל; explain the LXX rendering ἡ βαάλ.

(*c*) Explain the compound verbal phrases at the end of verse 48.

(*d*) How might the clause beginning ויציתו in verse 49 be otherwise expressed?

(*e*) Name and classify all the accents in verse 48. Explain, in view of the syntax, the incidence of the Disjunctive accents in the second half of verse 46.

II. Psalm civ. 1-12.

(1) Translate these verses.

(*a*) Remark on the interchange of tenses and participles, and distinguish between the uses of the participles with and without the article.

(*b*) What ancient forms occur in these verses?

(*c*) What other meaning may verse 4 bear? Give reasons for your choice.

(*d*) Parse המקרה in verse 2; תמוט in verse 5; כסיתו in verse 6; and ישקו in verse 11.

(*e*) Explain the syntax of מקום זה in verse 8; and of the first half of verse 6. In what case are אור and שמים in verse 2?

(*f*) To what does the suffix in עליהם in verse 12 refer?

III. (1) What is the position in history of the prophet Hosea? Characterise the main purpose of his book, and describe its literary features.

(2) Translate Hosea ix. verses 10-17 inclusive.

(*a*) Give a brief Exegetical Commentary on this passage.

(*b*) What are the historical references in verse 10, and in verse 15?

(*c*) In the first part of verse 13 the LXX has *Ἐφραίμ ὃν τρόπον εἰς θήραν παρέστησαν τὰ τέκνα αὐτῶν.* What light does this throw on the text? Defend your own translation.

(*d*) Give syntactical notes on מן in מלדה etc. in verses 11, 12; on the ו in ושכלתים verse 12, and והמתי in verse 16; and on לא אוסף אהבתם in verse 15.

(*e*) Name and classify the accents in verse 10.

ENGLISH LANGUAGE AND LITERATURE.

THREE HOURS.

(*Answer* NINE *questions, taking* ONE *from* A, ONE *from* B, FIVE *from* C, *and* TWO *from* D.)

A. COMPOSITION.

1. Define Solecism, Barbarism, and Impropriety, and give examples.

2. "In judging when it is proper to incline to the concise, when to the diffuse manner, we must be directed by the nature of the composition." Discuss.

3. Enumerate and define Figures of Resemblance, and criticise the following:—

(*a*) "There is not a single view of human nature which is not sufficient to extinguish the seeds of pride."

(*b*) "The noble sister of Poplicola,
The moon of Rome; chaste as the icicle
That's curdled by the frost from purest snow,
And hangs on Dian's temple."

(*c*) "I bridle in my struggling Muse with pain,
That longs to launch into a bolder strain."

B. PHILOLOGY.

4. Account for the differences between the peasant speech of Yorkshire and that of Devonshire, and show why both are unlike literary English.

5. Illustrate the influence of the social and the political institutions of the Normans on the English vocabulary.

6. Note distinctive features of East Midland English after 1200, and trace the development of this form into the language of literature.

C. SEVENTEENTH CENTURY LITERATURE.

7. Describe the Puritanism revealed in Milton's lyrics; *or*, characterise *Lycidas* as a memorial poem.

8. Estimate Milton as a sonneteer.

9. The passage on the occupations of Satan's followers in the absence of their chief has been described as "perhaps the most perfect example of mingled pathos and sublimity" in *Paradise Lost*. Discuss.

10. Dryden's literary and political satires are said to succeed through their intense individual sincerity. Exemplify this.

11. Estimate the personal significance and the literary quality of the *Religio Medici*.

12. Indicate the autobiographical importance of Milton's *Tractate of Education*, *or* of Dryden's *Discourse on Satire*.

13. Summarise and examine Locke's discussion of "Partiality."

14. Criticise Dr. Johnson's phrase "metaphysical poets," with special reference to the work of Donne and Cowley; *or*, compare the earlier with the later Seventeenth century prose.

D. 'OTHELLO' AND SELECTIONS FROM BROWNING.

15. Criticise the theory that "little or nothing is wanting to render the *Othello* a regular tragedy, but to have opened the play with the arrival of Othello in Cyprus, and to have thrown the preceding act into the form of narration."

16. The third act of *Othello* has been declared to be Shakespeare's finest display not of knowledge or passion separately but of the two combined. Discuss.

17. Explain with reference to the context:

(*a*) As when, by night and negligence, the fire
Is spied in populous cities.

(*b*) the magnifico is much beloved,
And hath in his effect a voice potential
As double as the duke's.

(*c*) A liberal hand: the hearts of old gave hands;
But our new heraldry is hands not hearts.

(*d*) And his unbookish jealousy must construe
Poor Cassio's smiles, gestures and light behaviour,
Quite in the wrong.

(*e*) but, alas, to make me
A fixed figure for the time of scorn
To point his slow unmoving finger at!

(*f*) Not dead? not yet quite dead?
I that am cruel am yet merciful;
I would not have thee linger in thy pain:
So, so.

18. Write a critical exposition of one of these: Abt Vogler, Andrea del Sarto, Instans Tyrannus, Childe Roland to the Dark Tower came.

FRENCH LANGUAGE AND LITERATURE.

FIRST PAPER—Three Hours.

1. Translate into French:

My mother was a Florentine.
Whose rare blue eyes were shut from seeing me
When scarcely I was four years old, my life
A poor spark snatched up from a failing lamp
Which went out therefore. She was weak and frail:
She could not bear the joy of giving life,
The mother's rapture slew her. If her kiss
Had left a longer weight upon my lips
It might have steadied the uneasy breath,
And reconciled and fraternised my soul
With the new order. As it was, indeed,
I felt a mother-want about the world,
And still went seeking, like a bleating lamb
Left out at night in shutting up the fold,—
As restless as a nest-deserted bird
Grown chill through something being away, though what
It knows not.

E. Browning, *Aurora Leigh.*

This age is pre-eminently willing to listen to its poets, and it is pre-eminently characteristic of these poets to dwell upon the profoundest convictions regarding the spiritual life of man. It is no formal difference which divides the inspired spiritualism of Wordsworth, the melodious piety of Tennyson, and the strenuous ardour of Browning's religious faith, from the pert secularism of the age of Pope. And there is no surer index to the spirit of a people than its imaginative literature.

The poets are the best exponents of their time; they give utterance, as no others can, to the dim thoughts that blindly move around the public heart. And men . . . listen to these poets not without reverence, and find in their melodious thoughts what moves them to believe that the voice which spoke of old by Job and Isaiah still speaks in the spirit of man, and still reveals itself in the loveliness of nature and the confused grandeur of human history.

HENRY JONES.

2. Translate into English:

LES SIRÈNES.

Les Sirènes chantaient . . . Là-bas, vers les îlots,
Une harpe d'amour soupirait, infinie;
Les flots voluptueux ruisselaient d'harmonie,
Et des larmes montaient aux yeux des matelots.

Les Sirènes chantaient . . . Là-bas, vers les rochers,
Une haleine de fleurs alanguissait les voiles;
Et le ciel reflété dans les flots pleins d'étoiles
Versait tout son azur en l'âme des rochers.

Les Sirènes chantaient . . . Plus tendres à présent,
Leurs voix d'amour pleuraient des larmes dans la brise,
Et c'était une extase où le cœur plein se brise,
Comme un fruit mûr qui s'ouvre au soir d'un jour pesant!

. . . .

La nuit tiède embaumait . . . Là-bas, vers les îlots,
Une harpe d'amour soupirait, infinie;
Et la mer, déroulant ses vagues d'harmonie,
Etendait son linceul bleu sur les matelots.

ALBERT SAMAIN (*Au Jardin de l'Infante*).

SECOND PAPER—THREE HOURS.

I. GRAMMAR.

(*a*) Sketch the external and internal development of the French language during the period of *Old French*.

(*b*) Explain the use of the various tenses of the indicative mood in French, with examples.

II. LITERATURE.

Traiter *l'un* des sujets suivants:

(*a*) Lamartine, V. Hugo et Alfred de Musset, poètes de la douleur.

(*b*) Imaginer une conversation entre Lamartine, V. Hugo et A. de Musset sur le rôle de la nature dans la vie du poète.

GERMAN LANGUAGE AND LITERATURE.

FIRST PAPER—Three Hours.

1. Translate into German:

There is perhaps no spectacle which the island of Ceylon affords more striking to a European, than the bay of Condatchy, during the season of the pearl fishery. This desert and barren spot is at that time converted into a scene which exceeds, in novelty and variety, almost anything I have ever witnessed. Several thousands of people of different colours, countries, castes, and occupations, continually passing and repassing in a busy crowd; the vast numbers of small tents and huts erected on the shore, with the bazaar or market-place before each; the multitude of boats returning in the afternoon from the pearl banks, some of them laden with riches; the anxious expecting countenances of the boat-owners, while the boats are approaching the shore, and the eagerness and avidity with which they run to them when arrived, in hopes of a rich cargo, the vast numbers of jewellers and merchants, of all colours and all descriptions, both natives and foreigners, who are occupied in some way or other with the pearls, some separating and assorting them, while others are hawking them about,—all these circumstances tend to impress the mind with the value and importance of that object which can of itself create this scene.

2. Write an essay in German on one of the following subjects:

(*a*) Königin Victoria: Ein Lebensbild.

(*b*) Die Motivierung des Todesurteils in "Maria Stuart."

Grammar.

Answer SIX *of the following questions.*

1. When is *es* used to denote the grammatical subject of a sentence?

2. Account for the formation of: Erde*n*leben, vorhande*n*, Religion*s*friede, seine*t*halben, Liebfraue*n*kirche, Armut, Hochmut.

3. Show by examples what force the prefixes *un*, *ur*, *erz* impart to adjectives and nouns.

4. Give the etymology of: *Eltern*, *Fürst*, *Junker*, *Hoffart*, *Vogt*, *Elend*, *Knappe*, *Flegel*, *Blesse*, *Rosskamm*.

5. Explain the origin and development of the modern use of the third person plural for the polite form of direct address.

6. In what part of Germany is the pure *s* sound retained in the pronunciation of *sp* and *st* as Anlaut, and how do you account for the difference in the pronunciation?

7. Under what condition or conditions was *e* broken to *i*, and *u* to *o*.

8. Give the *history* of the Umlaut and the first Sound Shifting.

9. Mention some of the most important changes which have taken place in the structure of words since the thirteenth century.

SECOND PAPER—Three Hours.

A.

Translate :

1. Der gewaltigen Erhebung der Kriegsjahre 1813-15 war für das im neuen 'Deutschen Bund' politisch nicht geeinigte, aber notdürftig verbundene und von der drückenden und aussaugenden Fremdherrschaft befreite Deutschland eine Zeit tiefen Friedens und stillen, wenn auch sehr allmählichen Gedeihens gefolgt. Die tiefen Wunden, welche die mehr als zehnjährige Zerrüttung, die systematische Ausraubung des Volkes, welche die Heereszüge und Schlachten dem Lande geschlagen, schlossen sich erst nach vielen Jahren. Der freudige patriotische Schwung der Feldzüge, die mit dem ersten und dem endgültigen Sturz Napoleons geendet hatten, machte bei der ungeheuern Mehrzahl der Nation einer neuen Bescheidung in arbeitsreichen materiell knappen Verhältnissen Raum, und die Jahre zwischen 1816 und 1820 brachten der Sehnsucht nach stiller Sicherheit und friedlich-behaglichem Daseinsgenuss, welche man im Jahrzehnt des Kriegs so schmerzlich vermisst hatte, volles Genügen.

2. Nachdem ich zehen bittre Jahre lang
Dem Götzen ihrer Eitelkeit geopfert,
Mich jedem Wechsel ihrer Sultanslaunen
Mit Sklavendemut unterwarf, das Spielzeug
Des kleinen grillenhaften Eigensinns,
Geliebkost jetzt von ihrer Zärtlichkeit,
Und jetzt mit sprödem Stolz zurückgestoszen,
Von ihrer Gunst und Strenge gleich gepeinigt,
Wie ein Gefangener vom Argusblick
Der Eifersucht gehütet, ins Verhör
Genommen wie ein Knabe, wie ein Diener
Gescholten—O, die Sprache hat kein Wort
Für diese Hölle ! MARIA STUART.

3. Unter diesen Umständen übernahm der Doktor Martin Luther das Geschäft, den Kohlhaas durch die Kraft beschwichtigender Worte, von dem Ansehn, das ihm seine Stellung in der Welt gab, unterstützt, in den Damm der menschlichen Ordnung zurückzudrücken, und auf ein tüchtiges Element in der Brust des Mordbrenners bauend, erliesz er ein Plakat folgenden Inhaltes an ihn, das in allen Städten und Flecken des Kurfürstentums angeschlagen ward :

"Kohlhaas, der du dich gesandt zu sein vorgiebst, das Schwert der Gerechtigkeit zu handhaben, was unterfängst du dich, Vermessener, im Wahnsinn stockblinder Leidenschaft, du, den Ungerechtigkeit selbst vom Wirbel bis zur Sohle erfüllt ?" KLEIST.

4. Het ich der einfelting Pewrin mehr,
Die mich schickt in das Paradeisz !
Wehr schadt, das sie all weren weisz !—
Botz angst, ich sie dort ein von weiten
Auff eim Rosz mir eilendt nach reiten.
Ists nicht der Pawr, so ists ein blag,
Das er mirs dinglich widr abjag.
Ich wil das puerlein hie verstecken
Ein weil in diese doren hecken. SACHS.

B.

1. *Write notes on:* um dieser Gefälligkeit; im Sachsischen; um ihm das Striegeln zu lehren; Urtelspruch; in jeder Freuden Fülle; spart mir den Augenblick; Afterkönigin; Mortimern mit Erstaunen ansehend; so wie geronnen, so ist's zerstoben; er ist den Odem keiner Sorge wert; ich muss meiner Frau rufen; Glück zu, lieben Gesellen; er sass geruhig beim Grafen; Herre, ich merkt's wohl.

2. *Give an idiomatic rendering of the following phrases:* wollen Sie es schriftlich; übrigens hat das Ding einen Haken; sie räumt täglich auf; er hat von der Sache Wind bekommen und sich aus dem Staube gemacht; dacht' ich's doch; das ist eben eine schwierige Sache; hören Sie mal; es ist ja sonst Gebrauch; das fehlte noch!

LITERATURE.

[*Answer* SEVEN *questions;* ONE, *at least, must be from group B.*]

A.

1. In what way does Goethe's treatment of *Iphigenie* differ from that of Euripides?

2. Criticise the style of *Michael Kohlhaas.*

3. Contrast the characters of Queen Mary and Elizabeth in *Maria Stuart.*

4. In what respect was the *Prinz von Homburg* affected by the Romantic movement?

5. Trace the early development of Romanticism.

6. Give a short account of A. W. Schlegel's life and his influence upon German Literature.

7. Characterise the novel of the Romantic School.

B.

8. Sketch the principal characters in the *Nibelungenlied.*

9. What was the influence of the literature of France upon that of Germany in the First Classical Period?

10. Indicate the general features of the *Meistergesang.*

B.—DEPARTMENT OF MENTAL PHILOSOPHY.

LOGIC.—THREE HOURS.

(*Not more than* TEN *questions to be attempted.*)

1. What do you understand by a Law of Thought? Distinguish the logical from the psychological treatment of thought, and explain the function of the Laws of Thought in Logic.

2. (*a*) Carefully explain the Square of Opposition.

(*b*) Give the contradictory and (where possible) the converse of the following:

(i) All the fish weighed ten pounds.
(ii) He cannot become rich who will not labour.
(iii) Life is not all pleasant.
(iv) Few are acquainted with themselves.

3. (*a*) Prove from the general rules of the Syllogism that if one premise is particular, the conclusion must be particular.

(*b*) Examine the validity of the following arguments, and name any fallacies they contain:

(i) Since the end of poetry is pleasure, that cannot be unpoetical with which all are pleased.

(ii) No form of democracy can be subject to violent revolutions; for no form of democracy excludes the common people from political power, and any form of government which does so is subject to violent revolution.

(iii) The book which Mr. A. and Mr. B. are writing together is sure to be a good one, for they are both good writers.

4. Explain what is meant by the Intension and Extension of terms, and discuss the view that Intension and Extension always vary inversely.

5. (*a*) State and prove the special rules of Figure II.

(*b*) Shew that if one but only one premise of a syllogism is negative and one but only one premise is universal, they will between them distribute two terms.

6. Explain Direct and Indirect Reduction, showing why the process was considered by Aristotle to be necessary. Construct a Syllogism in *Disamis* and reduce it directly and indirectly.

7. Explain the following terms: (i) Excluded Middle; (ii) Property (*proprium*); (iii) Cross Division; (iv) Joint Method of Agreement and Difference; (v) Ignoratio Elenchi; (vi) Plurality of Causes.

8. "The Syllogism is not a true expression of inference. For, if the conclusion says more than is contained in the premises, the Syllogism is invalid; and if the conclusion is already to be found in the premises, the argument is a *petitio principii*."

Carefully examine this argument, in respect both of its form and its matter.

9. In what sense is the uniformity of nature a presupposition of all inductive inference? Discuss Mill's view of the subject.

10. Carefully explain what is meant by a Cause in inductive investigation.

11. Write a brief explanatory note on each of the following terms: (i) conation; (ii) the threshold of consciousness; (iii) sub-consciousness; (iv) hallucination; (v) local signs.

12. Distinguish perception from sensation. Analyse your perception of a picture on the wall.

13. Explain, with illustrations, what is meant by reflex action, and indicate its psychological significance.

14. Discuss the doctrine of "mental faculties."

15. What are the "laws of association of ideas"? Can they be reduced to one fundamental law?

16. Discuss what in Berkeley's theory is meant by the independent existence of an ordered material world. What explanation does he give of natural laws?

17. "There is not any other substance than Spirit or that which perceives." On what grounds does Berkeley maintain this? Compare his position with the views of Locke and Hume.

18. "I do not deny absolutely that there are general ideas; but only that there are any *abstract* general ideas." Explain and discuss, giving Berkeley's reasons for his view.

19. "The stream of thought is not a continuous current, but a series of distinct ideas, more or less rapid." Examine this statement.

20. Give a brief account of the philosophy of *any two* of the following: (i) Anaxagoras; (ii) Parmenides; (iii) Heraclitus; (iv) Pythagoras.

21. How does Descartes connect the idea of God with the *cogito, ergo sum*?

22. Discuss Descartes's theory of the relation of body to mind.

MORAL PHILOSOPHY.—THREE HOURS.

(*All candidates for the Degree are required to answer not less than* TWO *nor more than* THREE *questions in Section* A, *and not less than* SIX *nor more than* SEVEN *in Section* B.)

SECTION A.

1. Distinguish between the Guardians and the Auxiliaries in Plato's Republic. What is the training proposed for the former?

2. What does Plato mean by saying that Poetry and Art are "twice removed from the truth"? Discuss his view of Art.

3. State and criticise Plato's view of pleasure.

4. What did Plato mean by "Opinion"? How does his view of this stage of knowledge affect his ethical doctrine?

5. Explain and discuss the contrast which Plato draws between Democracy and Aristocracy.

SECTION B.

1. Can Ethics be treated as a Natural Science? Give reasons for your answer.

2. In what respects does the Socratic teaching agree with that of the Sophists, and in what respects does it differ?

3. State and criticise Aristotle's view of the Chief Good.

4. Point out wherein the Cynic and the Stoic doctrines agreed and differed.

5. In what ways has the problem of human freedom been affected by the application of the idea of "cause" to man's life?

6. Why has man's knowledge of moral distinctions been regarded as immediate? What is meant by "Conscience"?

7. What is the place and significance of self-denial in the moral life?

8. Discuss the nature of 'Desire,' and indicate its bearing upon the problem of 'Freedom.'

9. Can the moral end be at once progressive and absolute?

10. What is the relation between individual and social welfare?

11. Give a critical account of Epicureanism.

POLITICAL ECONOMY—Three Hours.

(*Only* EIGHT *questions to be attempted*: SIX *from Section* I., *and* TWO *from Section* II.)

Section I.

1. Compare any definitions of Wealth, Capital, and Income with which you are familiar.

2. Wages have risen while the rate of Interest has fallen. Examine this statement, and say if there is any connection between the two phenomena.

3. "The cost of production of the marginal produce can be ascertained without reasoning in a circle. The cost of production of other parts cannot." Explain.

4. State the more important steps in Ricardo's Rent Law. With what modifications can the Law be applied in manufacture?

5. What is "the deepest and most important line of cleavage in economic theory"?

6. Discuss the defects of time and piece wages. Describe any recent methods tending to secure equal pay for equal effort.

7. "The recognition of the elastic nature of the standard of comfort is an important modification of the doctrine of Malthus." Explain.

8. State and discuss the Marxian (Labour) theory of value.

9. What are the principal advantages and drawbacks of competition?

10. Summarise the main economic changes in England in the nineteenth century.

11. "The direct influence of Trade Unions on wages is small relatively to the great economic forces of the age." How would you attempt to prove this statement?

12. What are the economic effects of a policy of restriction of output?

SECTION II.

13. On what grounds is a return to Protection sometimes advocated?

14. Compare Scots bank notes, and Bank of England notes, giving some account of their history and of the principles on which they are issued.

15. "We believe that it may be affirmed that the possible loss of income from the entire loss of our foreign trade would be a most measurable and by no means a fatal injury." What did Sir Robert Giffen mean by these words? What should we lose indirectly?

16. "The metals called 'precious' seem to be on the eve of losing the epithet which has always been bestowed on them." Explain.

EDUCATION.

FIRST PAPER—THREE HOURS.

1. Show Aristotle's theory and method of Education as determined by his psychology.

2. "In Locke as in Rousseau, there is too much artifice." Consider this statement and display the weakness of such methods.

3. Give the substance of Locke's teaching on
   (*a*) Reasoning with Children.
   (*b*) Rewards and Punishments.
   (*c*) Learning to Read.
   (*d*) Fencing.

4. Criticise the theory of "natural consequences" as interpreted by Rousseau and Spencer.

5. Describe, in agreement with Spencer, "History as it should be." Add a note as to Rousseau's views on the teaching of history.

6. Relate to his basal theory Herbart's view of the function of the teacher.

7. Consider the *Scholemaster* as illustrative of the educational ideas and limitations of the period.

8. Explain the following, giving the context in each case:
   From *The Scholemaster*:
      (*a*) Pallas also was lady mistress in wars.
      (*b*) These seven plain notes to choose a good wit.
   From *Thoughts concerning Education*:
      (*a*) The hard and valuable part to be aimed at in Education.
      (*b*) The principle of all Virtue and Excellency.
   From *Émile*:
      (*a*) A good servant ought to be robust.
      (*b*) Children must be told the bare truth.
   From Spencer's *Education*:
      (*a*) The leisure part of Education.
      (*b*) The three phases through which human opinion passes.

SECOND PAPER—THREE HOURS.

1. Write *brief* notes on the following: Number alphabet, continuum, recept, universitas, universalia ante rem, expulsive power of the higher emotion.

2. Consider the nature and psychological basis of repetition, and its place in school work. Add a critical note on the position of Jacotot, of Comenius, and of Montaigne.

3. Examine the proposition that "every school subject should be made a training-ground for the reasoning powers even more than a means of giving information." Illustrate your answer by a reference to science, history, and geography.

4. "The Will constitutes the meaning of knowledge and of feeling, and moral will constitutes the meaning of Will." Explain and examine this statement, and show how its acceptance would direct our educational practice.

5. Discuss the importance of scientific preparation and skilful questioning. Indicate a few of the main tests of a good question, and examine, from a psychological standpoint, the statement that "no *bona fide* answer is really wrong."

6. Discuss the educational importance of the Renaissance as a "movement towards self-emancipation."

7. State fully Comenius's method of teaching Latin. Show to what extent it was an advance on existing systems and how far it falls short of the best modern methods.

8. State and critically examine Milton's views on education.

C.—DEPARTMENT OF SCIENCE.

MATHEMATICS.

FIRST PAPER—THREE HOURS.

(NOTE.—*Candidates may obtain* FULL *marks by doing correctly about* TWO-THIRDS *of this paper. The curves in questions* 10-12 *should be drawn on the squared paper provided.*)

1. A is a point outside a circle, ABC a straight line cutting the circle at B and C, and AT a straight line meeting the circle at T; if the rectangle $AB \, . \, AC$ is equal to the square on AT, show that AT is a tangent to the circle.

Describe a circle to pass through two given points and to touch a given straight line; discuss the different cases.

2. Describe an isosceles triangle having each of its base angles double of the vertical angle.

Calculate the side of a regular pentagon inscribed in a circle whose radius is 10 inches.

3. Given the base AB of a triangle and the ratio of the two sides, find the locus of the vertex.

The vertex P of a triangle, the middle point M of the base, and the point N where the bisector of the vertical angle meets the base are given in position; construct the triangle.

4. Show that the areas of similar triangles are proportional to the squares on corresponding sides.

The areas of two similar triangles are in the ratio of 7 to 3, and the diameter of the circumscribing circle of the greater triangle is 21; find the diameter of the circumscribing circle of the other triangle.

5. Show that two straight lines which are perpendicular to the same plane are parallel to each other.

A and B are two given points outside a plane but on the same side of the plane, and P is a point on the plane; find the position of P for which the sum of the distances AP and PB is the least possible.

6. How is the angle between two places measured? If a straight line is perpendicular to a plane, show that every plane containing the line is perpendicular to that plane.

OA, OB, OC are three concurrent straight lines each of which is perpendicular to the other two; from O the perpendicular OH is drawn to the plane ABC, and CH is produced to meet AB at D. Show that the rectangles $CD.HD$ and $AD.DB$ are each equal to the square on OD.

7. Define the polar of a point with respect to a circle, and show that any straight line which passes through a fixed point is cut harmonically by the point, the circle, and the polar of the point.

A, B are two points outside a circle, and B lies on the polar of A; show that the square on AB is equal to the sum of the squares on the tangents from A and B to the circle.

8. Show that the difference of the squares on the tangents from any point to two given circles is equal to twice the rectangle contained by the distance between their centres and the perpendicular from the point on the radical axis of the circles.

Find the locus of a point such that the tangents from it to two given circles shall be in a given ratio to each other.

9. Define a centre of similitude of two given circles, and show that if a straight line through a centre of similitude S cuts one circle at K, L and the other circle at M, N the rectangle contained by one pair of the segments SK, SL, SM, SN is equal to the rectangle contained by the other pair.

From the vertex A of a triangle ABC a straight line $APQRS$ is drawn cutting the inscribed circle at P, Q and the escribed circle which touches the side BC at R, S; show that the rectangles $AP.AS$ and $AQ.AR$ are equal.

10. Define the coordinates of a point with respect to two rectangular axes. Draw a diagram showing the straight lines whose equations are

$$3x+4y=12, \quad 3y-5x=15,$$

and find from the diagram, as accurately as you can, the coordinates of the point in which the lines intersect. Test your result by solving the equations as simultaneous equations.

Find the equation of the straight line through $(-2, 1)$ perpendicular to the straight line joining $(3, 2)$ and $(1, -2)$.

11. Show that the equation

$$x^2+y^2+3x-5y-4=0,$$

represents a circle, and find its radius and the coordinates of its centre.

Find the equations of the tangents to the above circle that are parallel to the line $y=x$, and give the coordinates of the point of contact of each tangent.

12. Plot the curve whose equation is

$$2y=3+5x-x^2$$

from $x=-2$ to $x=6$. On the same diagram and with the same scale draw the circle whose equation is

$$x^2+y^2=4,$$

and read off the coordinates of the points in which the curve and circle intersect. Write down the equation whose roots are the abscissae of the points of intersection.

SECOND PAPER—Three Hours.

(Note.—*Candidates may obtain* FULL *marks by doing correctly about* TWO-THIRDS *of this paper.*)

1. If $\frac{a}{b}=\frac{c}{d}=\frac{e}{f}$, show that each fraction is equal to

$$\frac{ax+cy+ez}{bx+dy+fz},$$

where x, y, z are any numbers.

If
$$\frac{ax-b}{bx-a}=\frac{cx-d}{c-dx},$$

show that
$$\left(\frac{x+1}{x-1}\right)^2=\frac{(a+b)(c+d)}{(a-b)(c-d)}.$$

2. Show that if ax^3+bx^2+cx+d vanishes for more than three values of x, each of the coefficients a, b, c, d will be zero.

Determine a, b, c, d, so that $2x^3+3x^2-4x+5$ may be equal to

$$a(x-1)^3+b(x-1)^2+c(x-1)+d$$

for every value of x.

3. Show that the solution of two simultaneous equations of the form

$$a(x^2+y^2)+bxy+c(x+y)+d=0,$$
$$A(x^2+y^2)+Bxy+C(x+y)+D=0$$

can always be effected by equations of a degree not higher than the second.

Solve $(x-y)^2+x+y=6,\ 2(x^2+y^2)-3xy=8.$

4. What is the least value of $3x^2-4x+5$ if x is a real number, and what is then the value of x?

P is a fixed point in the base BC of a triangle ABC and Q, R are points in the sides AB, AC respectively such that QR is parallel to BC. Find the position of QR when the area of the triangle PQR is the greatest possible, it being understood that the sides AB, AC are not to be produced.

5. In the expression x^3+x^2+x+1 substitute for x first $2+\sqrt{3}$, then $2-\sqrt{3}$, and find the sum and the product of the two values thus obtained.

Express in their simplest form with rational denominators

$$\text{(i)}\ \frac{\sqrt{x}+\sqrt{(x+a)}}{\sqrt{x}+\sqrt{a}+\sqrt{(x+a)}}\,;\quad \text{(ii)}\ \frac{a^2+2ab+c^2}{a+b+\sqrt{(b^2-c^2)}}.$$

6. Find, proving the formulae you use, the sum of the series

(i) $1+2+3+\ldots$ to n terms;

(ii) $1^2+2^2+3^2+\ldots$ to n terms.

A straight line AB of length a is divided into n equal parts and each part is multiplied by the square of the distance of its middle point from A; find the sum of the n products. What is the value of the sum if n become infinite?

7. Find the sum of n terms of the series

$$1+2x+3x^2+4x^3+\ldots.$$

For what values of x can the sum to infinity of this series be found, and what is that sum?

If $$S_n=\frac{1}{2^n+1}+\frac{1}{(2^n+1)^2}+\frac{1}{(2^n+1)^3}+\ldots \text{ to infinity,}$$

find S_n; then find the sum to infinity of the series

$$S_1+S_2+S_3+\ldots.$$

8. Prove the binomial theorem when the index is a positive integer. For what values of x can $(1+x)^n$ be expanded in ascending powers of x when n is not a positive integer?

If x is so small that its square and higher powers may be rejected, find the value of

$$\frac{1+x+\sqrt[3]{(8-x)}}{1-x-\sqrt{(4-x)}}.$$

9. Define $\sin x$ for all values of x, and show by means of a graph or otherwise how $\sin x$ varies as x increases from 0° to 360°.

Find all the values of x less than 360° that satisfy the equations:

(i) $\sin 2x=\cos x$;

(ii) $4\cos x+3\sin x=2$.

10. Prove that in any triangle

$$\text{(i)}\ \frac{a}{\sin A}=\frac{b}{\sin B}=\frac{c}{\sin C}\,;$$

$$\text{(ii)}\ c\sin\tfrac{1}{2}(A-B)=(a-b)\sin\tfrac{1}{2}(A+B).$$

If in a triangle

$$\sin A + \sin B + \sin C = 2{\cdot}4848 \text{ and } A + B = 100^\circ,$$

find all the angles.

11. If r is the radius of the inscribed circle of a triangle, show that

$$r = (s-a)\tan \tfrac{1}{2}A.$$

If $$a = 373,\quad b = 277,\quad c = 390,$$

find the angles of the triangle and the area of the inscribed circle.

12. If $$\cos y = \frac{\cos x - e}{1 - e\cos x},$$

show that $$\tan \tfrac{1}{2}y = \sqrt{\left(\frac{1+e}{1-e}\right)} \tan \tfrac{1}{2}x.$$

13. Eliminate θ from the equations:

$$x \sec\theta - y\tan\theta = a,$$
$$x^2\sec^2\theta - y^2\tan^2\theta = b^2.$$

NATURAL PHILOSOPHY.

FIRST PAPER—THREE HOURS.

(NOTE.—*Candidates are requested not to attempt more than* NINE *of the following questions.*)

1. A point is moving with a velocity that is variable in magnitude but constant in direction; explain carefully how the acceleration of the point is measured. If at time t seconds the velocity is $5t + t^2$ feet per second, this relation between velocity and time holding throughout the motion, find the acceleration at the end of one second.

The distances traversed by a moving point during the 2nd, the 4th, the 6th, and the 8th second of its motion are 13, 25, 37, and 49 feet respectively; show that the motion is consistent with the supposition of an acceleration that is constant in magnitude and direction, and find the acceleration.

2. Define the "period" and the "amplitude" of a simple harmonic motion. Show that the motion of the bob of a simple pendulum making small oscillations is approximately simple harmonic, and find the period of a complete oscillation (that is of a double swing).

A seconds-pendulum is shortened by $\frac{1}{100}$th of an inch; find approximately how many beats it gains or loses in a day of 24 hours.

3. State the second law of motion and explain as clearly as possible what you understand to be the full signification of the law.

A man in an elevator holds a mass of 1 lb. in his hand: find the force he must exert on it to prevent its moving relatively to the elevator when the elevator is moving (i) with uniform speed, (ii) with an upward acceleration of 20 feet per second per second, (iii) with a downward acceleration of 15 feet per second per second.

4. Define the moment of a force about a point. Show that the algebraic sum of the moments of two component forces about a point in their plane is equal to the moment of their resultant about that point.

A particle P is acted on by two forces, F_1 directed to a fixed point A and F_2 directed to another fixed point B; if $F_1 = \mu/AP^2$ and $F_2 = \mu/BP^2$, prove that their resultant passes through a point C in AB such that AC is to CB as AP^3 is to BP^3.

5. Define the centroid of a system of particles the masses and positions of which are given.

From a circular plate of uniform density and thickness a piece of the shape of an equilateral triangle is cut out; if the vertex of the triangle is on the circumference and the mid point of the base at the centre of the circle, find the position of the centroid of the portion of the plate that is left.

6. A uniform straight rod AB of mass M and length a is marked off into 10 equal lengths AA_1, A_1A_2, A_2A_2, $\ldots A_9B$; if the mass of each of these portions be supposed concentrated at its middle point, calculate the radius of gyration of the rod on the supposition that it may be replaced by this system of masses.

The rod is free to swing about a horizontal axis through A; if it is held in a vertical position with its centre of gravity above A, and then slightly displaced; find the kinetic energy of the rod when it is next in a vertical position, and the velocity at that instant of its centre of gravity.

7. Define an impulse and explain how it is measured.

A particle of mass m is dropped from a height a and strikes the end of a uniform horizontal beam of mass $6m$ and length $6a$, which can turn freely about its centre of gravity. Find the angular velocity of the beam immediately after impact on the supposition that the mass m adheres to the beam.

8. Where are frictional forces between different bodies of a system applied and what is their direction? State the ordinary approximate laws of friction between solid bodies, defining coefficient of friction and explaining shortly how it can be determined.

A heavy body is to be dragged up a rough inclined plane, the coefficient of friction between the body and the plane being $\tan\lambda$; if the direction of the force makes with the plane an angle θ, show that the force required to drag the body up will be least when θ is equal to λ.

9. How is a modulus of elasticity measured? Define bulk-modulus, rigidity-modulus, Young's modulus.

Taking Young's modulus for wrought iron to be 29×10^6 lb, per sq. in., what decrease in length will take place when a column of cross-section 12 square inches and 10 feet high carries a load of 36 tons?

10. Distinguish between a solid and a fluid and explain what is meant by a perfect fluid. Show that in a perfect fluid the pressure at each point is the same in all directions.

A vessel in the shape of a right circular cylinder, of radius 5 centimetres, is filled with compressed air. The walls are of thin metal such that a strip of it 4 cms. broad will sustain without breaking a stretching force of 2×10^6 grammes weight. Find in dynes per square centimetre the utmost pressure which the curved wall of the cylinder will bear.

11. State the principle of Archimedes for a body immersed in any fluid, and explain how it may be experimentally verified for a body immersed in water.

A cubic foot of cork of specific gravity $\frac{1}{4}$ is kept under the surface in a vessel of water by a string attached to the bottom of the vessel; what is the stretching force in the string? If the cork floats in the vessel and if the vessel is placed within the receiver of an air pump from which the air is then exhausted, will the cork rise or sink? Give a reason for your answer.

12. Explain the terms, centre of buoyancy and metacentre.

In a vessel of 8000 tons displacement the removal of 20 tons from one side of the deck to the other, a distance of 52 feet, causes the ship to heel through an angle of $2\frac{1}{2}$ degrees. Find the metacentric height.

SECOND PAPER—THREE HOURS.

(NOTE.—*Candidates are requested not to attempt more than* EIGHT *questions.*)

1. State Boyle's law and define "height of the homogeneous atmosphere." Show that in air which is throughout at one temperature the height of the homogeneous atmosphere is the same for all points in the same vertical.

Give a brief account of the manner of propagation of a wave of sound in air, bringing out (1) the mode in which particles of the air move, (2) the changes of pressure and density which take place in a portion of the air, (3) the thermal changes in that portion.

What evidence is there for supposing that the propagation of sound takes place without communication of heat from one part of the wave to another.

2. Explain in general terms the effect of the non-transmission of heat from one part of a sound-wave to another on the velocity of propagation.

Give an expression for the true velocity of propagation of a wave of sound in air of density ρ under pressure p. Calculate the velocity of sound in air under pressure two atmospheres and at 20° C. taking the mass of a litre under one atmosphere and at 0° C. as 1·29 grammes.

3. Describe carefully the motion of the air in an organ pipe (1) when the upper end is open, (2) when it is closed. Describe and account for the different manner of reflection of the sound-wave at the upper end in the two cases.

How can the pitch of a note be determined from the velocity of sound and the length of the pipe. Explain why, in the case of an open pipe, the virtual length is greater than the actual length.

What is the effect of a rise of temperature on the pitch of an organ? What change of temperature would be necessary to raise the general pitch of the notes a semi-tone?

4. Define a scale of temperatures on a constant volume gas thermometer, and define absolute zero of temperature on that scale.

Hence prove that if the gas fulfil Boyle's law, and θ be any temperature measured from absolute zero on the scale of which you have given the definition, and p, v be the pressure and volume of a gramme of the gas at that temperature θ, the relation

$$\frac{pv}{\theta}=R,$$

where R is a constant, holds for the gas.

The gas is raised in temperature by an amount $\delta\theta$, while kept under the same pressure p. Show that the work done by the expanding gas per unit of $\delta\theta$ is R.

5. Define (1) a unit of heat (*e.g.* the calorie), (2) thermal capacity, and (3) specific heat of a body.

What are the so-called two specific heats of air? Prove that on a certain supposition (which state) the excess of the greater specific heat above the smaller is, in proper dynamical units, $=R$. Taking θ as the temperature given by the air thermometer for the freezing point of water, and the dynamical equivalent of heat as 42×10^6 ergs for 1 calorie, the barometric pressure as that due to a column of mercury 76 centimetres in height and of density 13·6, find the difference of the specific heats.

6. Give an account of a method for the determination of the latent heat of steam.

Define the total heat of steam at temperature t°, and give Regnault's expression for its value. Hence deduce the value of the latent heat of steam at temperature t, and calculate its value at 0° C., 40° C., 100° C.

7. Define conductivity of a substance for heat, and explain exactly how Forbes determined it for iron by observations of a long bar maintained in a steady condition, and of the cooling of a short bar of the same material.

How may a comparative estimate of conductivity be obtained by means of a series of similar bars coated with wax, one end of each bar being immersed in the same bath which is kept at uniform temperature?

Prove by any method that the distances from the heated ends to which the wax is finally melted on the different bars are proportional to the square roots of the conductivities.

8. State fully the elementary laws of reflection and refraction of light. State the principle of reversal of the ray, and hence show how total reflection occurs when a ray passes from a transparent medium to the surface of another which is optically less dense.

Define critical angle of total reflection. A ray is incident perpendicularly to one face of a prism and the refracted ray is just totally reflected at a second face of the prism. Taking the index of refraction of the glass as 1·5, find the angle between the two faces.

9. What is meant by a principal plane of a prism? Show that when a ray passing through a prism lies in a principal plane and the angles of

incidence and emergence at the first and second faces respectively are θ and θ', the deviation of the ray is $\theta + \theta' - E$ where E is the angle of the prism.

Give a graphical construction showing the deviation of the ray in its passage through the prism. Adduce considerations to show that the deviation at either of the faces increases with the angle of incidence, and increases faster and faster as the angle increases by equal small amounts.

10. A, B are the two points in which the principal axis meets the two faces of a double convex lens, and C is a point between them such that $AC/CB = R/R'$ where R, R' are the radii of the respective faces. Show that a ray which passes through the lens and whose direction after emergence is parallel to its direction before entrance, passes also through C.

Where is C situated (1) if R' is infinite, that is, if the lens is plano-convex; (2) when R' is negative, that is, when the lens is convexo-concave?

11. How does chromatic aberration in a lens arise?

Two lenses of different kinds of glass have powers P, P' for a mean ray for which the index of refraction is μ in one case and μ' in the other.

If μ_1, μ_2 be indices of refraction of the first for a certain red and a certain blue ray, and μ'_1, μ'_2 the indices of refraction of the other for the same rays, and ϖ, ϖ' denote $(\mu_2 - \mu_1)/(\mu - 1)$, $(\mu'_2 - \mu'_1)/(\mu - 1)$ respectively, show that an achromatic combination will be obtained by putting these two lenses together, with their axes in coincidence, provided

$$\varpi P + \varpi' P' = 0.$$

12. An insulated metal sphere of 12 centimetres radius is charged to a potential of 100 electrostatic units of potential. What is the charge on the sphere, and the number of ergs of work done in charging it?

The same sphere is then connected by a long fine wire to an insulated uncharged sphere of 24 centimetres radius: find the common potential and the charge on each sphere.

What amount of energy has been lost, and what has become of it?

13. Show how to find the magnetic field at a point on the axis of a circle in which a current is flowing.

Describe some form of tangent galvanometer, and the mode of adjusting it in the meridian. Prove that the equation for the current C in terms of the deflection α of the needle from the magnetic meridian is

$$C = \frac{H}{G}\tan\alpha.$$

What is H and what is G? Calculate G for the case in which the needle is hung horizontally at the centre of the coil, when that is a thin coil of N turns of wire.

14. State Ohm's law. Give some method of comparing two resistances experimentally.

A cell whose E.M.F. is 1·5 volts and internal resistance 2 ohms has its terminals joined by two wires of resistance 4 ohms and 6 ohms. Find the current in each wire and the rate at which energy is spent in each in heat. [1 volt $=10^8$ C.G.S. units of E.M.F., 1 ohm $=10^9$ C.G.S. units of resistance.]

15. What are the laws of the induction of currents by a conductor cutting across the lines of force of a magnetic field?

A sliding conductor moves along two rails 144 centimetres apart at a speed of 2700 centimetres a second. If the intensity of the vertical magnetic field between the rails be ·4 C.G.S. unit find the electromotive force produced by the motion of the conductor, and the current (in C.G.S. units) produced in the circuit if the rails are joined by a wire so that the resistance in the circuit is 10 ohms.

CHEMISTRY—See p. 620.
ZOOLOGY—See p. 619.
BOTANY—See p. 619.

D.—DEPARTMENT OF HISTORY AND LAW.

BRITISH HISTORY.

FIRST PAPER—THREE HOURS.

(ONE *at least of the questions marked * must be taken. Not more than* EIGHT *questions in all should be attempted.*)

*1. Write short notes on: St. Columba, the "Lady of the Mercians," Archbishop Lanfranc; Hubert de Burgh, Earl Thomas of Lancaster, Richard Duke of York.

*2. Describe the position and historical importance of: Nechtansmere, Bridgnorth, Acre, Bouvines, Falkirk, Harlaw, Wakefield.

*3. Explain the importance of: William I.'s Consuetudines, the Constitutions of Clarendon, the Parliament of 1265, the Black Death, the Captivity of James I.

4. Compare the immediate effects of (1) the Danish Invasions (755-797) and (2) the Norman Conquest.

5. What measures did Henry II. take to curb the power of the baronage?

6. Point out the several ways in which the reign of Richard I. may be regarded as conducing to the progress of the country.

7. Compare the attitude of the Church towards the Crown (1) in the time of Simon de Montfort and (2) under the Lancastrian Kings.

8. Describe Edward II.'s relations with Scotland, and explain his failure at Bannockburn.

9. Why was Edward I. successful and Henry IV. unsuccessful in subduing Wales?

10. Did Richard II. and Richard III. respectively deserve their fate?

11. Why were the nobles in England and in Scotland so powerful in the fifteenth century?

12. Describe Henry VII.'s policy to Scotland, Ireland, and Flanders.

SECOND PAPER—Three Hours.

(One *at least of the questions marked * must be taken. Not more than* eight *questions in all should be attempted.*)

*1. Write short notes upon: Sir John Eliot, Halifax the Trimmer, Pulteney, Hawke, Shelburne, Dundas.

*2. Describe the geographical position and importance of: Fotheringay, Kilsyth, Worcester, Limerick, Saratoga, Nootka Sound.

*3. Give the chief terms of the Peace of Utrecht, the Peace of Paris (1763), the Peace of Versailles (1783), the Peace of Amiens.

4. Show how the Reformation movement in Henry VIII.'s reign was affected by the revival of letters.

5. Compare the characters of Somerset and Northumberland, and describe their policy.

6. What comparison can be instituted between the foreign policy of Elizabeth and that of Oliver Cromwell?

7. Describe the policy of James VI. and Charles I. towards Scotland.

8. What attempts were made to unite England and Scotland before 1705? Why did they fail?

9. Contrast the means used by Charles II. and George IV. to secure subservient Parliaments.

10. Account for the revolt of the American colonies.

11. Give some account of the younger Pitt as a reforming minister.

12. Why was Great Britain able to hold out against France under Napoleon?

Constitutional Law and History—See p. 632.

Civil Law—See p. 625.

II. FOR THE DEGREE WITH HONOURS.

(And for Snell Exhibition, April, 1903.)

A.—GROUP OF CLASSICS.

LATIN TRANSLATION—Three Hours.

1. Translate according to your 'profession.' Very short notes may be added where the translation is not self-explanatory.

(*a*) Virgil, *Aen.* VII. 170—189.
(*b*) Hor. *Sat.* I. 2. 12—22.
(*c*) Hor. *Ars Poet.* 47—59.
(*d*) *Either* Lucret. II. 973—990, *or* Lucret. IV. 183—198.
(*e*) Juv. *Sat.* VIII. 195—210.
(*f*) Mart. II. 6, *or* Mart. VII. 63.
(*g*) Catull. XXII. 1—11.
(*h*) Cic. *Phil.* V. 5, *or* Cic. *Ad Atticum*, II. 19. § 2.
(*i*) Livy III. xxxv. §§ 3—8, *or* Livy XXIII. xlviii. §§ 6—12.
(*k*) Tac. *Ann.* XIII. 41. § 4.

2. Translate and explain :

(*a*) Heu, terra ignota canibus date praeda Latinis
alitibusque iaces, nec te tua funera mater
produxi. (Virg.)

(*b*) Ut valet? ut meminit nostri? Fidibusne Latinis
Thebanos aptare modos studet auspice Musa
an tragica desaevit et ampullatur in arte. (Hor. *Epp.*)

(*c*) Turgidus Alpinus iugulat dum Memnona dumque
defingit Rheni luteum caput, haec ego ludo,
quae nec in aede sonent certantia iudice Tarpa,
nec redeant iterum atque iterum spectanda theatris.
(Hor. *Sat.*)

(*d*) Prolatis rebus parasiti venatici
sumus, quando res redierunt, Molossici
odiosicique et multum incommodestici.
et hic quidem hercle, nisi qui colaphos perpeti
potis parasitus frangique aulas in caput
vel extra portam trigeminam ad saccum ilicet.
(Plaut. *Capt.*)

Or,

Quemque a milite hoc videritis hominem in nostris tegulis
extra unum Palaestrionem, huc deturbatote in viam.
quod ille gallinam aut columbam se sectari aut simiam
dicat, disperistis, ni usque ad mortem male mulcassitis.
atque adeo, ut ne legi fraudem faciant aleariae,
adcuratote ut sine talis domi agitent convivium.
(Plaut. *Mil. Glor.*)

(*e*) Interea Megalesiacae spectacula mappae
Idaeum sollemne colunt, similisque triumphi
praeda caballorum praetor sedet. (Juv.)

(*f*) Haud tibi inexpertum curvos deprendere mores,
quaeque docet sapiens bracatis inlita Medis
porticus, insomnis quibus et detonsa iuventus
invigilat, siliquis et grandi pasta polenta :
et tibi quae Samios diduxit littera ramos,
surgentem dextro monstravit limite callem. (Pers.)

(*g*) Callimachi manes et Coi sacra Philetae,
in vestrum, quaeso, me sinite ire nemus.
primus ego ingredior puro de fonte sacerdos
Itala per Graios orgia ferre choros.
dicite quo pariter carmen tenuastis in antro?
quove pede ingressi? quamve bibistis aquam? (Prop.)

(*h*) Adde casus, adde incertos exitus pugnarum Martemque communem, qui saepe spoliantem iam et exultantem evertit et perculit ab abiecto. adde inscitiam pransi poti oscitantis ducis, qui quum a tergo hostem interclusum reliquisset, nihil de eius extremis comitibus cogitavit; in quos incensos ira vitamque domini desperantes quum incidisset, haesit in iis poenis quas ab eo servi fideles pro domini vita expetiverunt. Cur igitur eos manu misit? metuebat scilicet ne indicaretur, ne dolorem perferre non possent, ne tormentis cogerentur occisum esse a servis Milonis in Appia via Clodium confiteri. quid opus est tortore? quid quaeris? occideritne? occidit, iure an iniuria? nihil ad tortorem. facti enim in equuleo quaestio est, iuris in iudicio. (Cic. *Pro. Mil.*)

Or,

Capit hoc consilii, ut pecuniam quibusdam iudicibus levissimis polliceatur, deinde eam postea supprimat, ut, quoniam graves homines sua sponte severe iudicaturos putabat, eos, qui leviores erant, destitutione iratos Oppianico redderet. Itaque, ut erat semper praeposterus atque perversus, initium facit a Bulbo et eum, quod iam diu nihil quaesierat, tristem atque oscitantem leviter impellit. 'Quid tu?' inquit, 'ecquid me adiuvas, Bulbe, ne gratis rei publicae serviamus?' Ille vero simul atque hoc audivit 'ne gratis': 'Quo voles,' inquit, 'sequar; sed quid adfers?' Tum ei HS quadraginta milia, si esset absolutus Oppianicus, pollicetur et eum, ut ceteros appellet, quibuscum loqui consuesset, rogat atque etiam ipse conditor totius negotii Guttam aspergit huic Bulbo. (Cic. *Pro Aulo Cluentio*, XXVI. § 71.)

Or,

Istud quod te sacerdotii iure facere posse dixisti, si augur non esses et consul esses, minus facere potuisses? vide ne etiam facilius. nos enim nuntiationem solum habemus; consules et reliqui magistratus etiam spectionem. (Cic. *Phil.* II.)

Or,

Habet etiam Campana lex exsecrationem in contione candidatorum, si mentionem fecerint, qua aliter ager possideatur atque ut ex legibus Iuliis. (Cic. *Ad Atticum*, II. 18.)

(*i*) Tarquinius Superbus bellica arte superasset superiores reges, nisi degeneratum in aliis rebus huic quoque laudi offecisset. (Livy I.)
Remark on the syntax only.

Cui ineunti consulatum quum tonuisset vocati augures vitio creatum videri pronuntiaverunt; vulgoque patres ita fama ferebant, quod tum primum duo plebeii consules facti essent, id deis cordi non esse. (Livy XXIII.)

(*k*) Nec grave manu missis per idem obsequium retinendi libertatem per quod adsecuti sint. (Tacitus.)

LATIN PROSE—Three Hours.

On the library shelves stand thick as autumn leaves the unread books. Hidden away in obscure corners are the ripe old authors whom we know by name alone. The mist of an unspoken tongue veils from us the splendid treasures of antiquity, and we comfort ourselves with glib commonplaces about 'the sympathetic study of translations.' No! it can hardly be the keen desire of culture which makes us patient listeners to endless lectures. Culture is not so easy of access. It is not a thing passed lightly from hand to hand. It is the reward of an intelligent quest, of delicate intuitions, of a broad and generous

sympathy with all that is best in the world . . . We cannot gain this fine mastery over ourselves by absorbing—or forgetting—a mass of details upon disconnected subjects. If we will sit down and seriously try to reckon up our winnings in years of lecture-going, we may yet find ourselves reluctant converts to Mr. Bagehot's cruel conclusions. It is the old old search for a royal road to learning. It is the old old effort at a compromise which cheats us out of both pleasure and pain. It is the old old determination to seek some short cut to acquirements, which, like 'conversing with ingenious men,' may save us from the drudgery of reading and thinking. AGNES REPPLIER.

LATIN GENERAL PAPER—Two Hours.

A. Unprepared Translation.

Translate :

Sed de M. Calidio dicamus aliquid, qui non fuit orator unus e multis, potius inter multos prope singularis fuit; ita reconditas exquisitasque sententias mollis et pellucens vestiebat oratio, nihil tam tenerum quam illius comprehensio verborum, nihil tam flexibile, nihil quod magis ipsius arbitrio fingeretur, ut nullius oratoris aeque in potestate fuerit: quae primum ita pura erat ut nihil liquidius, ita libere fluebat, ut nusquam adhaeresceret: nullum nisi loco positum et tamquam in vermiculato emblemate, ut ait Lucilius, structum verbum videres: nec vero ullum aut durum aut insolens aut humile aut longius ductum: ac non propria verba rerum sed pleraque translata, sic tamen ut ea non irruisse in locum alienum sed immigrasse in suum diceres; nec vero haec soluta nec diffluentia, sed astricta numeris, non aperte nec eodem modo semper, sed varie dissimulanterque conclusis. erant autem et verborum et sententiarum illa lumina, quae vocant Graeci σχήματα, quibus tamquam insignibus in ornatu distinguebatur omnis oratio. accedebat ordo rerum plenus artis, actio liberalis totumque dicendi placidum et sanum genus. (Cic. *Brut.*)

B. Prosody.

Scan any six of the following verses : name the measure and remark on any prosodiacal licenses :

(*a*) Mulier est, muliebris vox mi ad auris venit.
(*b*) Propontida trucemve Ponticum sinum.
(*c*) Domum redimus clanculum, dormimus incenati.
(*d*) Quid noctis videtur in altisono
caeli clipeo?
(*e*) Sperne coli tenuiore lyra, vaga cingitur astris.
(*f*) Spectandus in certamine Martio.
(*g*) Ad claras Asiae volemus urbes.
(*h*) Invicte mortalis dea nate puer Thetide.
(*i*) Et longum 'formose vale, vale,' inquit, 'Iolla.'
(*k*) Miser Catulle, desinas ineptire.

C. HISTORY AND LITERATURE.

(*Not more than* FOUR *questions need be attempted.*)

1. How did Augustus concentrate the supreme power in his own person without apparent violation of constitutional form? Mention any historical precedents for this procedure.

2. 'Bonorum principum usus ex aequo, saevi proximis ingruunt.' Give some estimate of the advantages or disadvantages which accrued from the establishment of the Principate.

3. Give some account of the Fabula Palliata. How far were these plays a faithful copy of Greek originals?

4. Compare the conditions of Oratory under the Empire with those of the Ciceronian Age. What effect did the former tend to produce?

5. What do you understand by silver Latin? Illustrate from Statius its leading characteristics.

6. Discuss with examples Graecism in the Syntax of Latin of various periods.

7. Indicate the exact significance of the Rullan Law and the prosecution of Rabirius. What light do they cast upon contemporary politics at Rome?

8. Institute a comparison between Juvenal's Satire and Martial's Epigram as regards (*a*) literary form, (*b*) subject-matter and point of view.

GREEK TRANSLATION—THREE HOURS.

(*Translate according to your profession.* VERY SHORT *notes may be added where the translation is not self-explanatory.*)

I. PRESCRIBED BOOKS.

Translate

1. HOM. *Il.* XXII. 490—514.

Comment briefly on ἀμφιθαλής, αἰόλαι, οὐδὲν σοί γ' ὄφελος.

2. HOM. *Od.* VI. 149—161.

Γουνοῦμαί σε, ἄνασσα· θεός νύ τις ἦ βροτός ἐσσι;
Εἰ μέν τις θεός ἐσσι, τοὶ οὐρανὸν εὐρὺν ἔχουσιν,
Ἀρτέμιδί σε ἔγωγε, Διὸς κούρῃ μεγάλοιο,
Εἶδός τε μέγεθός τε φυήν τ' ἄγχιστα ἐΐσκω·
Εἰ δέ τίς ἐσσι βροτῶν, τοὶ ἐπὶ χθονὶ ναιετάουσιν,
Τρισμάκαρες μὲν σοί γε πατὴρ καὶ πότνια μήτηρ,
Τρισμάκαρες δέ κασίγνητοι· μάλα πού σφισι θυμὸς
Αἰὲν ἐϋφροσύνῃσιν ἰαίνεται εἵνεκα σεῖο,
Λευσσόντων τοιόνδε θάλος χορὸν εἰσοιχνεῦσαν.
Κεῖνος δ' αὖ περὶ κῆρι μακάρτατος ἔξοχον ἄλλων,
Ὅς κέ σ' ἐέδνοισι βρίσας οἶκόνδ' ἀγάγηται.

Οὐ γάρ πω τοῖον εἶδον βροτὸν ὀφθαλμοῖσιν,
Οὔτ' ἄνδρ' οὔτε γυναῖκα· σέβας μ' ἔχει εἰσορόωντα.

Distinguish the *ἐέδνα* of this passage from the *μείλια* in *Iliad* ix. 149, *ἐγὼ δ' ἐπὶ μείλια δώσω.*

3. Aesch. *Agam.* 914—930.

Discuss Weil's reading of the last line:

εἶπον τάδ' ὡς πρασσοιμ' ἂν, εὐθαρσῆ λέγων.

4. (*a*) Soph. *Antig.* 354—375.

(*b*) *Κατ' αὖ νιν φοινία θεῶν τῶν*
νερτέρων ἀμᾷ κόνις
λόγου τ' ἄνοια καὶ φρενῶν Ἐρινύς.

κόνις MSS. Correct it if you think it necessary.

5. Plato, *Phaedo*, 72 B, l. 7—D, l. 2.

Explain the phrase *ὁμοῦ πάντα χρήματα* and its original context.

6. Plato, *Rep.* II. (361 E—362 C).

Indicate the precise attitude of the two young men and the turn they give to the discussion.

7. Aristot. *Poet.* 1453 a, l. 12—l. 33.

Mention the points which you would discuss under

εἰ καὶ τὰ ἄλλα μὴ εὖ οἰκονομεῖ.

8. Aristot. *Pol.* §§ 4—7.

State briefly Aristotle's objections to that part of Plato's scheme which refers to communism of property.

9. Herod. VII. chap. 142; *or* Herod. VI. chap. 19.

10. Thuc. I. 77, §§ 1—3; *or* Thuc. II. 61, §§ 2, 3.

II. BOOKS PROFESSED BY CANDIDATES.

1. (*a*) Pind. *Olym.* XIII. 48 (67)—72 (102).
   (*b*) Bacchyl. *Carm.* XVI. 86—91.

2. Aesch. *Prom. Vinct.* 393—412.

3. Soph. *Oed. Col.* 510—535.

4. (*a*) Eur. *Hippol.* 433—450.

Comment on the reading *τἄρα λύει.*

(*b*) Eur. *Alc.* 792—815.
(*c*) Eur. *Herc. Fur.* 655—686.

Explain the expressions: *ἀδίσταν συζυγίαν* and *ἐν στεφάνοισιν εἴην.*

5. Translate, with a very short note on the poets mentioned:

(*a*) Aristoph. *Equit.* 522—536.
(*b*) Aristoph. *Nub.* 718—733.

6. (*a*) Plato, *Rep.* IX. 574, D—575 A 7.
   (*b*) Plato, *Rep.* X. 604, C 5—D 10.

Indicate the connection of this with an earlier stage of the argument.

7. Dem. *De Cor.* 60 (245)—63 (246).
8. (*a*) Apoll. Rhod. *Argonaut.* III. 589—602.
   (*b*) Apoll. Rhod. *Argonaut.* IV. 627—644.
9. (*a*) Theocrit. XIV. 18—38.
   (*b*) Theocrit. VII. 37—41.

Comment on the allusions.

GREEK PROSE AND UNPREPARED TRANSLATION.

Three Hours.

1. Translate into Greek :

"If the French have a fault," as Yorick said, "it is that they are too grave." With wit, sense, cheerfulness, patience, good-nature and refinement of manners, all they want is imagination and sturdiness of moral principle. Such are some of the contradictions in the character of the two nations, and so little does the character of either appear to have been understood. Nothing can be more ridiculous indeed than the way in which we exaggerate each other's vices and extenuate our own. The whole is an affair of prejudice on one side of the question, and of partiality on the other. Travellers who set out to carry back a true report of the case appear to lose not only the use of their understandings, but of their senses, the instant they set foot in a foreign land. The commonest facts and appearances are distorted and discoloured. They go abroad with certain preconceived notions on the subject, and they make everything answer, in reason's spite, to their favourite theory. Hazlitt.

2. Translate into English :

(*a*) εἶτα διὰ τοῦτον ταῖς γυναικωνίτισιν
σφραγῖδας ἐπιβάλλουσιν ἤδη καὶ μοχλοὺς
τηροῦντες ἡμᾶς, καὶ προσέτι Μολοττικοὺς
τρέφουσι μορμολυκεῖα τοῖς μοιχοῖς κύνας.
καὶ ταῦτα μὲν ξυγγνώσθ᾽· ἃ δ᾽ ἦν ἡμῖν πρὸ τοῦ,
αὐτὰς ταμιεῦσαι καὶ προαιρούσας λαβεῖν
ἄλφιτον, ἔλαιον, οἶνον, οὐδὲ ταῦτ᾽ ἔτι
ἔξεστιν. οἱ γὰρ ἄνδρες ἤδη κλειδία
αὐτοὶ φοροῦσι κρυπτὰ, κακοηθέστατα,
Λακωνίκ᾽ ἄττα, τρεῖς ἔχοντα γομφίους.
πρὸ τοῦ μὲν οὖν ἦν ἀλλ᾽ ὑποῖξαι τὴν θύραν
ποιησαμέναισι δακτύλιον τριωβόλου,
νῦν δ᾽ οὗτος αὐτοὺς ᾡκότριψ Εὐριπίδης
ἐδίδαξε θριπήδεστ᾽ ἔχειν σφραγίδια
ἐξαψαμένους. νῦν οὖν ἐμοὶ τούτῳ δοκεῖ
ὄλεθρόν τιν᾽ ἡμᾶς κυρκανᾶν ἁμωσγέπως,
ἢ φαρμάκοισιν, ἢ μιᾷ γέ τῳ τέχνῃ,
ὅπως ἀπολεῖται. ταῦτ᾽ ἐγὼ φανερῶς λέγω·
τὰ δ᾽ ἄλλα μετὰ τῆς γραμματέως συγγράψομαι.

Aristoph. *Thesmophoriazusae.*

(*b*) Ὅθεν μοι σκοπουμένῳ καὶ διστάζοντι, πότερον εἴη πορευτέον καὶ ὑπακουστέον, ἢ πῶς, ὅμως ἔῤῥεψε δεῖν, εἴ ποτέ τις τὰ διανοηθέντα περὶ νόμων τε καὶ πολιτείας ἀποτελεῖν ἐγχειρήσοι, καὶ νῦν πειρατέον εἶναι· πείσας γὰρ ἕνα μόνον ἱκανῶς πάντα ἐξειργασμένος ἐσοίμην ἀγαθά. ταύτῃ μὲν δὴ τῇ διανοίᾳ τε καὶ τόλμῃ ἀπῆρα οἴκοθεν, οὐχ ᾗ τινὲς ἐδόξαζον, ἀλλ' αἰσχυνόμενος μὲν ἐμαυτὸν τὸ μέγιστον, μὴ δόξαιμί ποτε ἐμαυτῷ παντάπασι λόγῳ μόνον ἀτεχνῶς εἶναί τις, ἔργου δὲ οὐδενὸς ἄν ποτε ἑκὼν ἀνθάψασθαι, κινδυνεύσειν δὲ προδοῦναι πρῶτον μὲν τὴν Δίωνος ξενίαν τε καὶ ἑταιρείαν ἐν κινδύνοις ὄντως γεγονότος οὐ σμικροῖς. εἴτ' οὖν πάθοι τι, εἴτ' ἐκπεσὼν ὑπὸ Διονυσίου καὶ τῶν ἄλλων ἐχθρῶν ἔλθοι παρ' ἡμᾶς φεύγων καὶ ἀνέροιτο εἰπών· Ὦ Πλάτων, ἥκω σοι φυγὰς οὐχ ὁπλιτῶν δεόμενος οὐδὲ ἱππέων ἐνδεὴς γενόμενος τοῦ ἀμύνασθαι τοὺς ἐχθρούς, ἀλλὰ λόγων καὶ πειθοῦς, ᾗ σὲ μάλιστα ἠπιστάμην ἐγὼ δυνάμενον ἀνθρώπους νέους ἐπὶ τὰ ἀγαθὰ καὶ τὰ δίκαια προτρέποντα εἰς φίλιαν τε καὶ ἑταιρείαν ἀλλήλοις καθιστάναι ἑκάστοτε· ὧν ἐνδείᾳ κατὰ τὸ σὸν μέρος νῦν ἐγὼ καταλιπὼν Συρακούσας ἐνθάδε πάρειμι. καὶ τὸ μὲν ἐμὸν ἔλαττον ὄνειδός σοι φέρει· φιλοσοφία δέ, ἣν ἐγκωμιάζεις ἀεὶ καὶ ἀτίμως φῂς ὑπὸ τῶν λοιπῶν ἀνθρώπων φέρεσθαι, πῶς οὐ προδέδοται τὰ νῦν μετ' ἐμοῦ, μέρος ὅσον ἐπὶ σοὶ γέγονε;

PLATO, *Epist.* VII.

GREEK GENERAL PAPER—TWO HOURS.

(*Candidates are advised to attempt* QUESTION 1 *and not more than* FIVE *others.*)

1. Discuss the uses of ἂν or κε, original and derived, with special reference to the following examples:

(*a*) καὶ κέ τις ὧδ' ἐρέει.
(*b*) ὡς οὐδ' ἂν εἴ τι γένοιτο συμπνευσόντων ἂν ἡμῶν καὶ Θηβαίων.
(*c*) εἴπερ ἄλλῳ τῳ ἀνθρώπων πειθοίμην ἄν, καὶ σοὶ πείθομαι.
(*d*) πρὸς ποῖον ἂν τόνδ' αὐτὸς οὐδυσσεὺς ἔπλει;

2. Discuss the effects, political, social, and intellectual, of the Persian Wars upon Athens.

3. Apply the canons of Aristotle's *Poetics* to the criticism of any one Greek tragedy.

4. Compare Socrates' teleology with that of Plato.

5. What allusions to Rhapsodists do you know in Greek literature, and how do they bear upon the question of the Homeric text?

6. Describe the development of the Archon's office down to the Periclean Age.

7. Compare the policy of Aristeides with that of Themistocles in the light of the Ἀθηναίων Πολιτεία.

8. "Alexandrian literature is a revolt against the domination of Athens." Illustrate this.

9. What is meant by the phrase *Tragic diction*? How does it differ from Prose?

10. How far was Plato's theory of Education a reform of the practice then existing?

11. Discuss the origin and development of the Elegiac Metre.

12. What are the chief landmarks in the history of (1) military *or* (2) naval tactics between the Persian Wars and Alexander the Great?

13. Illustrate the connexion between History and Rhetoric at Athens.

B.—GROUP OF MENTAL PHILOSOPHY.

LOGIC.

FIRST PAPER—THREE HOURS.

(*Not less than* SIX *questions to be attempted.*)

1. Explain the Platonic and the Aristotelian views of Dialectic.

2. Explain Aristotle's Epagoge and Paradeigma. How are they related to Syllogism? Compare them with J. S. Mill's "inference from particulars to particulars," and "inference from analogy."

3. How far is the Aristotelian account of form and matter anticipated by Plato? In what way does Aristotle fail to overcome the Platonic dualism? Was his failure inevitable?

4. Examine Aristotle's account of the "common sense." Discuss its relation to his doctrine of Νοῦς.

5. Explain and discuss Aristotle's use of the idea of "Development." How is it related to modern conceptions of Evolution?

6. Trace the development of the Aristotelian theory of nature in the philosophy of (*a*) Theophrastus, (*b*) Strato.

7. What are the main ways in which the philosophy of the Stoics was influenced (*a*) by Heraclitus, (*b*) by Aristotle?

SECOND PAPER—THREE HOURS.

(*Not less than* SIX *questions to be attempted.*)

1. Trace the meaning of the *noumenon* in the successive parts of the *Kritik of Pure Reason.* How far was Kant consistent in admitting the conception into his system?

2. State and criticise Kant's "Refutation of Idealism."

3. Discuss Kant's criticism of the ontological argument for the existence of God.

4. In what ways has Kant's theory of knowledge influenced recent psychology?

5. (i) "The cause is the invariable antecedent."
   (ii) "The cause is the sum-total of the conditions, positive and negative, taken together."
   (iii) "The mind can never find the effect in the cause by the most accurate scrutiny and examination."
   (iv) "Cause and effect are different aspects of the same thing."
Examine these various views.

6. "Every universal judgment is hypothetical and every particular judgment categorical."

Explain and examine this doctrine, considering generally the relation of the hypothetical to the categorical judgment.

7. Give a careful psychological analysis of belief and certainty.

MORAL PHILOSOPHY.

FIRST PAPER—Three Hours.

1. Compare the views of Plato and Aristotle as to the voluntariness of human action.

2. State the Platonic and the Aristotelian theories of the nature of pleasure, and examine them.

3. Contrast Spinoza's view of the relation of reason and passion with that of the Stoics.

4. Discuss Spinoza's view of the nature of evil, and compare it with that of Hegel.

5. What advance, if any, does Green make upon Kant's theory of the Good Will?

6. Give a careful statement of the way in which Herbert Spencer and Leslie Stephen endeavour to reconcile Hedonism and Altruism.

7. "The moral law leads us to postulate not only the immortality of the soul but the existence of God." Criticise Kant's method of proving this doctrine. Does Hegel hold this view? If so, in what sense?

SECOND PAPER—Three Hours.

1. What is the relation between the intellectual and the moral ideal? Discuss, in this connection, the "Will-to-believe" theory.

2. What does Hegel mean by "Spirit"? How far does his view of Spirit modify the Kantian view of the relation between practical and theoretical reason?

3. What is the relation of Law to Morality?

4. Examine the presuppositions of Ethical Positivism.

5. "A rational theory of morals must be ultimately optimistic." Consider the arguments for and against this view.

6. "Goodness, as such, is but appearance which is transcended in the Absolute." Examine this statement.

7. "An erring conscience is a chimaera." Explain what Kant meant by this, and discuss it.

LOGIC AND MORAL PHILOSOPHY.

THIRD PAPER—Four Hours.

(*Not less than* THREE *questions in each section must be attempted.*)

Section A.

1. State the objections urged by Aristotle against Plato's Communism, and estimate their justice as regards Plato's view and their validity.

2. Compare Locke's theory of political sovereignty with that of Hobbes.

3. "The Hegelian theory involves that the Absolute is in process of development."

Examine this statement and consider in what respects the category of Development applies to the Absolute.

4. What main contrasts would you draw between the ethical views of Marcus Aurelius and Epictetus.

Section B.

5. Explain and examine the views of Kant on the mechanical and the teleological explanations of nature.

6. Discuss the arguments for and against the theory of "psycho-physical parallelism."

7. "It is possible that something of the same order as that which we call a nervous shock is the ultimate unit of consciousness, and that all the unlikenesses among our feelings result from unlike modes of integration of this ultimate unit."

Examine this theory of Spencer and discuss it in relation to Ward's *continuum* theory of consciousness.

8. Examine the theory that "the inconceivability of the opposite" is the ultimate test of truth, referring to the views of Descartes, Hamilton, J. S. Mill, and Spencer.

C.—GROUP OF MATHEMATICS AND NATURAL PHILOSOPHY.

MATHEMATICS.

FIRST PAPER—Three Hours.

(Note.—*Candidates must not answer more than* NINE *of the following questions.*)

1. Prove that if a rational integral function of x of the n^{th} degree vanishes for more than n values of x it vanishes for every value of x.

Find the coefficient of x^r in the product

$$(1+ax)(1+a^2x)(1+a^3x)\dots(1+a^nx),$$

and deduce the expansion of $(1+x)^n$.

2. Show that the arithmetic mean of n positive quantities is greater than their geometric mean unless the quantities are all equal.

Prove that, the quantities being all positive,

$$(a+b+c+d)\left(\frac{1}{a}+\frac{1}{b}+\frac{1}{c}+\frac{1}{d}\right)\geqq 16.$$

For what values of the variables x, y, z is $lx+my+nz$ greatest when

$$x^2/a^2+y^2/b^2+z^2/c^2=1\,?$$

Interpret geometrically.

3. $f(x)$ is a rational integral function of x and $f'(x)$ is its derivative; show that between every pair of real roots of $f(x)=0$ there lies at least one real root of $f'(x)=0$.

Show that the roots of the equation

$$x^3-4x^2-5x+15=0$$

are all real, and calculate the greatest positive root to four decimals.

4. Show that every rational symmetric function of the roots of an algebraic equation can be expressed rationally in terms of the coefficients.

If α, β, γ are the roots of the equation

$$x^3+ax^2+bx+c=0,$$

calculate the function

$$\sum\frac{\alpha^2+\beta\gamma}{\alpha^2-\beta\gamma}.$$

5. If A, B, C are the angles of a triangle, prove

(i) $\sin A\sin(B-C)+\sin B\sin(C-A)+\sin C\sin(A-B)=0$;

(ii) $\sin^3 A\sin^3(B-C)+\sin^3 B\sin^3(C-A)+\sin^3 C\sin^3(A-B)$
$=3\sin A\sin B\sin C\sin(B-C)\sin(C-A)\sin(A-B)$.

Show that

$$\frac{\sin x}{1+2\cos x}=\sum_1^{\infty}\frac{1}{2^n}\frac{\sin\left(\dfrac{x}{2^n}\right)}{2\cos\left(\dfrac{x}{2^n}\right)-1}.$$

6. Sum to n terms the series:

(i) $\sin\alpha+\sin(\alpha+\beta)+\sin(\alpha+2\beta)+\ldots$;

(ii) $1^2\sin\alpha+2^2\sin 2\alpha+3^2\sin 3\alpha+\ldots$.

If $f(x)=\sum\limits_1^{\infty}a_n\sin(nx+e_n)$, express in terms of the function $f(x)$ the sum

$$\sum_1^{\infty}a_{3n}\sin(3nx+e_{3n}).$$

7. Show that in a spherical triangle

$$\tan\tfrac{1}{2}(A-B)=\frac{\sin\frac{1}{2}(a-b)}{\sin\frac{1}{2}(a+b)}\cot\tfrac{1}{2}C.$$

Given $a=63°\ 15'$, $b=80°\ 12'$, $C=120°$, find A, B, c and the radius of the circumscribing circle.

8. If ABC is a spherical triangle on a fixed base BC and inscribed in a fixed small circle, show that $B+C-A$ is constant. Hence show that

the locus of the vertex of a triangle of constant area on a given base is a small circle.

If one angle of a triangle is fixed in position and the sum of the sides of the triangle is constant, find the envelope of the side opposite the fixed angle.

9. Investigate the condition that the general equation of the second degree in two variables should represent two straight lines.

AB is a fixed diameter of a circle and on the tangent at A two points C, D are taken; the straight lines BC, BD cut the circle at P, Q respectively. Show that if the rectangle $AC\,.\,AD$ is constant the chord PQ will pass through a fixed point.

10. The tangents of a parabola at the points P and Q intersect at T; prove, geometrically or analytically, that TP and TQ subtend equal angles at the focus.

If from the focus of a parabola a series of straight lines is drawn cutting the tangents to a parabola at a constant angle, find the locus of the points of intersection.

11. CP, CQ are two conjugate semi-diameters of an ellipse; express the coordinates of Q in terms of the eccentric angle of P, and show that the sum of the squares of CP and CQ is constant.

CP, CP' are any two semi-diameters of an ellipse and CQ, CQ' are their conjugates; if PP' touches a circle concentric with the ellipse, find the envelope of QQ'.

12. Show that two confocal central conics intersect at right angles at all their common points.

Two straight rods AB, AC are rigidly connected at A, the angle BAC being a right angle; if the rods move so that AB touches one ellipse and AC touches another confocal with the former, find the locus of A.

SECOND PAPER—Three Hours.

(Note.—*Candidates must not answer more than* NINE *of the following questions.*)

1. Define the limit of a function $f(x)$ for $x=a$. Can you give an example to show that the limit of $f(x)$ for x equal to a is not always the same thing as the value of $f(x)$ when x is equal to a?

Evaluate from first principles the following limits:

$$\text{(i)}\ \underset{x=0}{\mathrm{L}}\frac{\sin x}{x};\quad \text{(ii)}\ \underset{x=\frac{\pi}{6}}{\mathrm{L}}\left(x\tan 3x-\frac{\pi}{6}\sec 3x\right).$$

A transversal meets the side AB of a triangle ABC in P, the side AC in Q, and the base produced in R; if the transversal begins to rotate about R, the point R being fixed, and if AP, AQ are denoted by x, y respectively, show that

$$\frac{dx}{dy}=\frac{AP\,.\,PR}{AQ\,.\,QR}.$$

2. Prove Leibnitz's theorem for the n^{th} derivative of a product.

If $y=\tan^{-1}x$, show that

$$(1+x^2)\frac{d^{n+2}y}{dx^{n+2}}+2(n+1)x\frac{d^{n+1}y}{dx^{n+1}}+n(n+1)\frac{d^ny}{dx^n}=0.$$

By direct differentiation, show that the n^{th} derivative is of the form $P_{n-1}/(1+x^2)^n$ where P_{n-1} is a rational integral function of x of the $(n-1)^{\text{th}}$ degree, and then prove the following properties of P_n:

$$\text{(i)}\quad P_{n+1}+2(n+1)xP_n+n(n+1)(1+x^2)P_{n-1}=0;$$

$$\text{(ii)}\quad (1+x^2)\frac{d^2P_n}{dx^2}-2nx\frac{dP_n}{dx}+n(n+1)P_n=0.$$

3. If u is a continuous function of the independent variables x and y, show that

$$\frac{\partial^2u}{\partial x\partial y}=\frac{\partial^2u}{\partial y\partial x},$$

and state explicitly the conditions for the validity of your proof.

Change the independent variables in the equation

$$\frac{\partial^2z}{\partial x^2}+2xy^2\frac{\partial z}{\partial x}+2(y-y^3)\frac{\partial z}{\partial y}+x^2y^2z=0,$$

from x and y to u and v by the substitutions

$$x=uv,\quad y=1/v.$$

4. Prove Taylor's Theorem, giving the remainder.

The chord AC of an arc ABC of a circle is produced beyond C to D so that $CD=\frac{1}{2}AC$; with D as centre and DA as radius a circle is drawn cutting the tangent at C (drawn to the same side of the chord as the arc ABC) in E. Show that the straight line CE differs from the arc ABC by fifth and higher powers of θ, where θ is the ratio of the arc ABC to the radius of its circle.

5. Investigate an expression for the radius of curvature of a curve whose equation is $y=f(x)$ and give the coordinates of the centre of curvature.

Show that for the catenary $y=a\cosh(x/a)$ the radius of curvature at any point P is equal to the intercept on the normal between P and the x-axis.

Find the equation of the conic of closest contact with the catenary at the point $(0, a)$.

6. Define a harmonic pencil of straight lines, and find the condition that the straight lines given by

$$ax^2+2hxy+by^2=0$$

should be harmonic conjugates to those given by

$$a'x^2+2h'xy+b'y^2=0.$$

From the origin O two straight lines are drawn parallel to the axes of the conic

$$2y=ax^2+2hxy+by^2;$$

OC, OD are two other straight lines meeting the conic at C, D such that the two OC, OD are harmonic conjugates to the two OA, OB. Show that the chord CD passes through a fixed point.

7. Show that the angle between the two lines given by the equations

$$x+y+z=0, \quad ayz+bzx+cxy=0$$

is $\pi/2$ if $a+b+c=0$, but $\pi/3$ if $1/a+1/b+1/c=0$.

Through a fixed straight line L, which lies in the plane $z=0$ but does not pass through the origin, a plane is drawn intersecting the planes $x=0$, $y=0$ in M, N respectively; through M and a fixed point A and through N and another fixed point B planes are drawn. Find the equation of the locus of the line of intersection of these planes.

8. From a point P a straight line is drawn cutting a conicoid at A and B; find the locus of the harmonic conjugate of P with respect to A and B.

Through a fixed point P a series of straight lines is drawn; if each line is perpendicular to its conjugate with respect to the conicoid

$$ax^2+by^2+cz^2=1,$$

find the equation of the cone on which the lines through P lie.

9. Investigate the relations between the coordinates of the ends of a system of conjugate diameters of an ellipsoid, and show that the sum of the squares of the projections of three conjugate diameters on any line or on any plane is constant.

Show that the sum of the products of the perpendiculars from the two ends of each of three conjugate diameters of an ellipsoid on any tangent plane is equal to twice the square of the perpendicular from the centre.

10. The locus of the poles of a given plane with respect to a series of confocal central conicoids is a straight line.

Parallel tangent planes are drawn to a series of confocal ellipsoids; find the locus of the points of contact and state what the locus is.

11. Evaluate the integrals:

$$\text{(i)} \int \frac{dx}{(x+a)\sqrt{(a^2-x^2)}}; \quad \text{(ii)} \int \frac{dx}{(1-x^2)^3};$$

$$\text{(iii)} \int \frac{x^2dx}{(\cos x + x\sin x)^2}; \quad \text{(iv)} \int \sin^{n-1}x\cos(n+1)x\,dx.$$

12. Show that the area of any closed curve which does not cut itself may be found by any of the following integrals taken round the boundary of the curve:

$$\int x\,dy, \quad -\int y\,dx, \quad \tfrac{1}{2}\int (x\,dy - y\,dx).$$

Trace the curve $y(x^2+y^2)=a(y^2-x^2)$ and find the area of the loop.

THIRD PAPER—Two Hours.

(Note.—*Candidates must not answer more than* six *of the following questions.*)

1. Prove the Second Integral Theorem of Mean Value, namely

$$\int_a^b f(x)\phi(x)\,dx = \phi(a)\int_a^\xi f(x)\,dx + \phi(b)\int_\xi^b f(x)\,dx,$$

and state the conditions for the validity of the proof.

Apply the theorem to find the limitations on n that the integral

$$\int_0^\infty \frac{\sin x}{x^n}\,dx$$

may be convergent, and calculate its value when $n=1$.

2. Show how to change the variables from x, y to u, v in the double integral $\iint f(x, y)\,dx\,dy$ where x, y, u, v are connected by two relations.

Change the variables in the integral

$$\int_0^\infty x^{m-1}dx\int_0^\infty y^{n-1}dy$$

by the substitution $x+y=u$, $y=uv$.

3. Evaluate the integrals:

$$\text{(i)}\ \int_0^\theta \log(1+\tan\theta\tan x)\,dx\,;\quad \text{(ii)}\ \int_0^\infty \frac{\log(1+t^2x^2)}{1+x^2}\,dx\,;$$

$$\text{(iii)}\ \int_0^\infty \frac{\sin x}{1+a^2\sin^2 x}\,\frac{dx}{x}.$$

4. Define a developable surface and find the differential equation of such a surface.

Tangent planes are drawn to the surface $cz=xy$ at all points where it is cut by the cylinder $x^2=ay$; find the equations of the edge of regression of the developable surface generated by these planes.

5. Find the complete primitives of the equations:

$$\text{(i)}\ p=xy+x^3y^3\,;\quad \text{(ii)}\ x^2p^2-2x^2p=y^2-2xy-1\,;$$

$$\text{(iii)}\ (xp-3y)^3=27y^2(xp-y)^2.$$

6. Discuss geometrically the c-discriminant of a differential equation of the first order, stating the various loci obtained from it.

Solve and discuss the p- and c-discriminants of

$$\text{(i)}\ yp^2=4(xp-y)^2\,;\quad \text{(ii)}\ yp^2=x^2(xp-y)^3.$$

7. Solve the following equations:

$$\text{(i)}\ D^4y+2D^3y+3D^2y+2Dy+2y=x^2+\cos x\,;$$

$$\text{(ii)}\ x\frac{d^2y}{dx^2}+(x-1)\frac{dy}{dx}+y=0\,;$$

$$\text{(iii)}\ t\frac{dx}{dt}+2(x-y)=t+2t^2,$$

$$t\frac{dy}{dt}+x+5y=9t^2.$$

8. Explain Lagrange's method of integrating a partial differential equation of the first order in two variables.

Integrate

$$(x-xz)\frac{\partial z}{\partial x}+(x-y+yz)\frac{\partial z}{\partial y}+x^2=0,$$

and find a solution of the equation

$$x\frac{\partial z}{\partial x}-y\frac{\partial z}{\partial y}=z$$

that satisfies the condition $z=\phi(y)$ when $x=a$.

NATURAL PHILOSOPHY.

FIRST PAPER—THREE HOURS.

(NOTE.—*Candidates are requested not to attempt more than* NINE *of the following questions.*)

1. Find the tangential and normal components of the acceleration of a point moving in a plane curve.

A point moves in a plane curve in such a way that the tangential and normal components of its acceleration are each constant in magnitude but not in direction. Show that the path is an equiangular spiral, and find the hodograph.

2. A particle moves in a straight line under the action of an attraction directed to a fixed point, O, in the line and varying inversely as the square of the distance of the particle from O; if it starts from rest at a point distant a from O, investigate the motion. Find the time taken to reach O, and describe the subsequent motion.

A particle is placed on the straight line joining two fixed points O, A, and is subject to an attraction towards O and towards A, varying in each case inversely as the square of the distance. Show (i) that there is one position B between O and A at which the particle, if placed there, will be in unstable equilibrium; (ii) that if the particle be projected from any other point C on OB with such a velocity as will make it pass through B it will reach A; (iii) that if the velocity of projection from C is such that the velocity of the particle would vanish at B it will take an infinite time to reach B.

3. State Kepler's laws of planetary motion and state and prove Newton's deductions from them.

A particle moves subject to an attraction towards a fixed point O, the attraction per unit mass at the point (r, θ) being $\mu(1+3\cos 2\theta)/r^2$ where r, θ are polar coordinates with O as origin; if at the point $(c, 0)$ the velocity is perpendicular to the radius to the point, and is of magnitude $\sqrt{(\mu/c)}$, determine the orbit.

4. Two particles, projected in any two directions, are acted on solely by their mutual attractions, the law of attraction being that of the inverse square; show that the line joining them is always parallel to a fixed plane. If the directions of projection are in the same plane, what is the orbit relative to the centre of inertia?

Two particles of equal mass are constrained to move (without friction) on two straight lines which intersect at right angles at a point O; if the particles attract each other according to the law of the inverse square determine their motion, the initial distances of the particles from O being unequal.

5. Find the centroid of a triangular pyramid of uniform density. If the areas of the bases of the frustum are S_1, S_3, and the area of the section equidistant from the bases S_2, prove that the distances of the centroid from the two bases are in the ratio of S_3+2S_2 to S_1+2S_2.

Deduce the result that the centroid of the frustum coincides with the centroid of three masses kS_1, kS_3, and $4kS_2$ placed at the centroids of the bases S_1, S_3, and the mid-section S_2 respectively. Can you suggest other solids for which this result is true?

6. Establish, for the uniplanar motion of a rigid body, the differential equations that define the motion of the centre of gravity and the rotation of the body about an axis through the centre of gravity.

The line of intersection of two perfectly rough rigid planes A and B is horizontal, and the planes are inclined to the horizontal at angles α and β respectively, so that the angle between the planes is $\pi-(\alpha+\beta)$. A homogeneous sphere of radius a is placed on the plane A so that the point of contact is at a distance b from the line of intersection of A and B and begins to roll down the plane, its point of contact describing a line of greatest slope. Find how far up the plane B the sphere will roll before coming to rest. Give the numerical values when $\alpha=\beta=45^\circ$, $a=1$ foot, $b=100$ feet.

7. A rigid body is rotating about a fixed point with angular velocities ω_1, ω_2, ω_3 about rectangular axes fixed in the body; find expressions for the component velocities and accelerations of the point whose coordinates referred to the same axes are x, y, z.

A uniform circular plate revolves about its centre of gravity as a fixed point. If the plate were set in motion initially with an angular velocity ω about an axis making an angle α with its plane, show that a normal to the plane of the plate will make a revolution in space in the time $2\pi/\omega\sqrt{(1+3\sin^2\alpha)}$.

Show from elementary considerations that when α is only slightly less than $\pi/2$ the axis of figure must revolve in space with angular velocity 2ω.

8. Establish Lagrange's equations of motion.

A smooth rigid plane revolves with constant angular velocity about a fixed vertical through which it passes; a smooth uniform beam is in contact with the plane and free to slide on it. Determine the motion of the beam with reference to fixed axes in the plane, one coinciding with the axis of rotation, and the other at right angles to it.

9. Investigate the differential equations of stress for a thin wire subjected to bending and torsion.

If one end of a wire of circular section is fixed and the other end subjected to a couple, the wire being thus strained into a helix, find the curvature and twist.

10. Establish the equations of equilibrium of an elastic solid, namely,

$$\rho X+\frac{\partial P}{\partial x}+\frac{\partial U}{\partial y}+\frac{\partial T}{\partial z}=0,$$

with two similar equations, and write down the form these equations assume when P, Q, ... are expressed in terms of the strains.

Work out the solution for the torsion of a right cylinder of elliptic cross-section.

11. Find the attraction of a thick spherical shell of uniform density ρ, the internal and external radii being a and b, at any point inside or outside the shell.

Supposing the shell to be held together merely by the mutual attractions of its particles, show that the force required to separate it into two portions whose common boundary is determined by a plane at a distance c from the common centre of the spherical surfaces is

$$\frac{4}{3}\pi^2 k\rho^2(b-a)^2\left\{\frac{1}{4}(b^2+2ab+3a^2)-\frac{c^2}{2b}(b+2a)\right\}.$$

12. Prove that if F is the normal component of attraction at the element dS of a closed surface S

$$\int FdS = -4\pi kM,$$

where M is the mass within S and the integral is taken over the surface. Apply the theorem to show that the potential of any distribution of attracting matter cannot be an absolute maximum or minimum at any point where there is no matter of the system.

If a number of mutually repelling particles are enclosed in a rigid boundary, show that when they are in stable equilibrium they must be all on the boundary.

SECOND PAPER—THREE HOURS.

(NOTE.—*Do not attempt more than* EIGHT *questions.*)

1. Establish the equation of propagation of heat in a homogeneous solid, and find the conditions to be fulfilled at the surface which divides it from the surrounding medium (1) when the latter is conducting; (2) when its conductivity is practically zero and heat is carried off only by radiation to the surroundings.

Deduce the equations of the steady state, and prove that if a solution fulfilling all the necessary conditions can be found, it is the only solution.

2. The equation of propagation of heat along a bar which loses no heat laterally may be written

$$\frac{\partial v}{\partial t} = \kappa\frac{\partial^2 v}{\partial x^2}.$$

Establish this equation independently, bringing out the meaning of κ.

Show that the expression

$$\frac{1}{\sqrt{\kappa t}}\,e^{-(\xi-x)^2/4\kappa t},$$

and therefore also the expression

$$\int_0^{\infty}\frac{\phi(\xi)}{\sqrt{\kappa t}}\,e^{-\frac{(\xi-x)^2}{4\kappa t}}\,d\xi,$$

where $\phi(\xi)$ is an arbitrary function, satisfies the equation.

Hence construct a solution to satisfy the condition that the bar is in contact with a medium, at temperature 0 at one end, is infinite in length from that end, and is given initially with an arbitrary distribution of temperature.

3. A bar of uniform cross-section is covered with impermeable varnish and extends from the point $x=0$ to infinity. The bar being throughout at temperature zero, the extremity is brought at time $t=0$ to temperature v_0, and kept so ever after. Find the distribution of temperature in the bar at any subsequent time t; and verify that your expression gives the obvious solution for $t=\infty$.

Find the solution when the temperature at the extremity $x=0$ is made to vary according to a simple harmonic function of the time. Discuss your result.

4. Specify the strain and stress constituents at any point of a strained body and find in terms of them the work done in straining the body.

If the strain be specified by the potential $\phi=axyz$, show that the work done on a spherical portion of an isotropic body (of which the centre is the origin) as it passes through all the states of strain corresponding to the increase of a from 0 to a_0 is $\frac{8}{5}\pi n a_0{}^2 r^5$, where r is the radius of the sphere and n is the rigidity modulus.

5. Prove the equations of the small motions of an isotropic elastic solid in the form

$$\rho\frac{\partial^2 u}{\partial t^2}=\lambda\ \frac{\partial\Delta}{\partial x}+2n\left(\frac{\partial\theta_2}{\partial z}-\frac{\partial\theta_3}{\partial y}\right),$$

etc., etc., explaining fully the notation. What is the physical meaning of λ, and its value in terms of the principal moduli of the substance?

Show that θ_1, θ_2, θ_3 must each satisfy an equation of the form

$$\frac{\partial^2\theta}{\partial t^2}=\frac{n}{\rho}\ \nabla^2\theta,$$

and explain the nature of the motion.

6. Show directly from first principles that the differential equation of torsional vibrations of a right cylindrical rod or tube is

$$\frac{\partial^2\theta}{\partial t^2}=\frac{n}{\rho}\frac{\partial^2\theta}{\partial z^2}.$$

Hence show that the linear displacement of a point at distance r from the axis and z from an end is

$$r\sum_1^\infty A_m\sin\frac{m\pi z}{l}\cos\left(\frac{m\pi t}{l}\sqrt{\frac{n}{\rho}}\right)$$

if the rod is of length l and is fixed at both ends. Specify A_m analytically and physically.

A portion of an infinite isotropic solid is contained between two parallel planes at a distance l apart. It is fixed at these planes and vibrates in a fixed direction parallel to them at points between. Deduce the solution for such vibrations from that given above for the cylindrical rod.

7. Define self-inductance of a circuit and mutual inductance of two independent circuits which contain electromotive forces E_1, E_2, and in which currents γ_1, γ_2, are flowing. Deduce in terms of these and the currents an expression for the energy of a system of two circuits. Assuming that the dissipation function for the system is

$$\tfrac{1}{2}(R_1\gamma_1^2 + R_2\gamma_2^2),$$

find, by Lagrange's method, the equations of currents for the two circuits.

Show that when work is done by the mutual electromagnetic action of two currents which are maintained constant, the energy is increased by the same amount, so that twice that amount of work is furnished by the batteries over and above that which is spent in heat.

8. Deduce as far as you can from the equations of currents the observed phenomena of current induction.

How must the energy be modified to take account of condensers included in the circuits, and how does the new term in the energy affect the equations of currents?

Work out the complete solution for the case of the circuit of an alternating machine, if the circuit contains an induction coil and a condenser in series. Show how the phenomenon called resonance arises in this case.

9. The plates of a charged condenser are connected through an induction coil. Establish the differential equation of discharge, stating clearly the assumptions not exactly fulfilled which you make in the process.

Find from your equation dynamical analogues to resistance, inductance, and capacity; and illustrate the effects of all three by reference to a mechanical model.

Integrate the differential equations and point out the importance of the result in the theory of the propagation of electric waves.

10. The expression $\gamma ds \,.\, \sin\theta/r^2$ was given by Laplace for the magnetic field produced at a distance r by a current γ in an element of length ds of a linear conductor. Complete the explanation of the expression, stating the direction of the magnetic field.

A current γ is made to flow in a wire laid on a helical groove cut in the surface of a right circular cylinder. Assuming Laplace's expression, and that an element of a circuit may be resolved into components, show that *any* finite length of the helix produces a total magnetic induction through a circle coaxial with the helix equal to that which would be produced by a uniform solenoidal current sheet round the cylinder of current $\gamma \tan\phi/2\pi a$ per unit length of the cylinder, where ϕ is the inclination of the wire to the generating lines of the cylinder, and a is the radius of the cylinder.

11. Define a unit of electricity electrostatically and electromagnetically. Show that the number of electrostatic units of electricity in the electromagnetic unit represents a certain velocity, and suggest and explain an ideal experiment which would illustrate this velocity.

Describe one method by which this velocity has been experimentally determined.

THIRD PAPER—THREE HOURS.

1. A pendulum bob moves in a medium which opposes resistance proportional to the velocity, and is acted on by a force varying as a simple harmonic function of the time. Find the complete solution of the motion of the bob and discuss the case in which the period of the force is approximately the same as the free period that the pendulum would have if unacted on by friction.

The pendulum is held deflected initially and is let go, when the force at once begins to operate. Give the initial motion and show how it changes to the final motion.

Describe an experimental arrangement for producing such a motion as that here specified.

2. Investigate the differential equations of transverse oscillation of a stretched string on the supposition that the displacements from equilibrium are small.

Find a solution for the case of a string fixed at the two ends and given initially in any arbitrarily chosen possible configuration of displacement and then left to vibrate.

3. A string of length l, fixed at the two ends A_1, A_2, is deflected so as to form two rectilinear parts A_1B_1, B_1A_2, of which the lengths are a, b, and is then left to itself. Neglecting any stretching express the initial form of the string by a Fourier series, and investigate the subsequent motion.

Give a general explanation of the maintenance of the vibrations of a violin string by the action of the bow, accounting physically for the fact that the string is not as much retarded as it is accelerated by the bow.

4. In an unlimited atmosphere is situated a point-source of sound. The source is equivalent to an alternate production and destruction of air, periodic according to the simple harmonic law. Investigate the disturbance in the atmosphere.

Such a source of sound is situated at the vertex of an infinite conical tube: show that the energy communicated in a given time to the air in the tube varies inversely as the solid angle of the tube.

5. Give an account of researches which have been carried out on the diffraction of sound, by means of a system of stationary waves and a set of Huygens' zones cut in an opaque screen. Give the elementary theory of the arrangement.

6. Investigate an expression for the relation of an elasticity modulus of a substance, temperature constant, to the corresponding modulus, on the supposition of no passage of heat, assuming that the state of the substance is a function of the corresponding stress, the strain, and the temperature.

Apply this to the case of a wire under simple longitudinal stress, and show that if the substance expands when heated under constant stress it will be cooled by sudden extension and *vice versa*. Illustrate by results of actual experiments.

7. Give an account of Joule and Thomson's porous plug experiments. Prove that if θ denote absolute temperature, $d\theta$ the heating effect due to flow through the plug from pressure p to pressure $p+dp$, v the volume of a gramme of the gas, C_p, C_v the specific heats pressure constant and volume constant respectively,

$$\frac{1}{\theta}\frac{\partial\theta}{\partial v_p}=\frac{1-\mu\dfrac{\partial p}{\partial\theta_v}}{v+\mu C_v}=\frac{1}{v+\mu C_p},$$

where μ denotes $d\theta/dp$.

Hence, assuming the equation, $pv=R\theta$, for the gas, show that

$$C_p-C_v=p\left(1+\frac{\mu}{v}C_p\right)\frac{\partial v}{\partial\theta_v}.$$

Compare this with the result of the ordinary supposition as to the difference between the specific heats.

8. A very large opaque plane screen contains a small rectangular aperture. Parallel monochromatic light, incident normally on the screen, passes through the aperture. Investigate the diffraction phenomena produced.

9. Investigate the resolving power (1) of a prism set for minimum deviation, (2) of a plane diffraction grating.

A prism is made of flint glass whose index of refraction for the two yellow sodium lines is 1·650, 1·650055 respectively. Taking the wave-length of the more refrangible line as ·0005890 mm., find how thick the prism must be at the base in order that the double line may be resolved.

10. Describe Michelson's echelon spectroscope. Give the theory of the echelon, finding (1) the variation of diffraction angle for a given variation of the wave-length, (2) the difference of diffraction angle for two successive spectra of light of a given wave-length, (3) the resolving power of the grating.

Explain in what consists the peculiar advantage and disadvantage of the instrument, and explain how it is used for the investigation of magneto-optic phenomena.

D.—GROUP OF ENGLISH (LANGUAGE, LITERATURE, AND BRITISH HISTORY).

FIRST PAPER—THREE HOURS.

ANGLO-SAXON.

1. Translate the following passages:

(*a*) Ǫnd ðēah sindon mǫnige suīðe suīðe tō ðrēageanne, ðonne hīe selfe nyllað ongietan hiera scylda, ðæt hī ðonne gehīeren ðrēagende of ðæs lārīowes mūðe hū micle byrðenne hīe habbað on hiera scyldum ðonne hīe willað him selfum ðæt yfel ðæt hīe ðurh·tugon tō suīðe gelihtan, ðæt hīe ðonne

ondrǣden for ðæs lārēowes ðrēaunga ðæt hīe hit him gehęfegigen. Ðæt ðonne bið ðæs ręcceres ryht ðæt hē ðurh ðā stemne his lārīowdōmes ætíewe ðæt wuldor ðæs úplican éðles ǫnd hū mǫniga dīgla costunga ðæs ealdan fēondes lūtigeað on ðȳs andweardan līfe hē ēac geopenige, ǫnd ðæt hē his hīeremǫnna yfelu tō hnęsclīce forberan ne sceal, ac mid miclum andan ǫnd rēðnesse him stīere, ðȳlǣs hē sīe scyldig ealra hira scylda, ðonne him hiera nā ne ofðyncð. Be ðǣm wæs suīðe wel gecueden tō Ezechiēle: ‘Nim sume tigelan, ǫnd lęge beforan ðē, ǫnd wrīt on hiere ðā burg Hierusalēm.’ ǫnd sōna æfter ðǣm hē cuæð: ‘Besittað hīe ūtan, ǫnd wyrceað oðer fæsten wið hīe, ǫnd berað hiere hlæd tó, ǫnd sęnd ðǣrtō gefylcio, ǫnd ðerscað ðone weall mid rammum.’

(*b*) Eft on fyrste, æfter Crīstes ūpstige tō heofonum, rīxode sum wælhrēow cāsere on Rōmana rīce, æfter Nerōne, se wæs Domicianus gehāten, crīstenra manna ehtere: sē hēt āfyllan āne cȳfe mid weallendum ele, and þone mǣran godspellere þǣron hēt bescūfan; ac hē ðurh Godes gescyldnysse ungewęmmed of ðām hātum bæðe ēode. Eft, ðā ðā se wælhrēowa ne mihte ðæs ēadigan apostoles bodunge ālęcgan, þā āsęnde hē hine on wæcsīð tō ānum īgeoðe þe is Paðmas gecíged þæt hē ðǣr þurh hungres scearpnysse ācwǣle. Ac se Ælmihtiga Hǣlend ne forlét tō gȳmelēaste his gelufedan apostol, ac geswutelode him on ðām wræcsīðe þā tōweardan onwrigen*n*ysse, be ðǣre hé āwrāt ðā bóc ðe is gehāten ‘Apocalipsis’: and se wælhrēowa Domiciānus on ðām ylcan gēare wearð ācweald æt his witena handum; and hí ealle ānmōdlīce rǣddon þæt ealle his gesęt*t*nyssa āȳdlode wǣron.

(*c*) Ic Ōsuulf aldormǫnn mid Godes gæfe, ǫnd Beornðrȳð mīn gemęcca sęllað tō Cantuara-byrg, tō Crīstes-cirican, ðæt lǫnd æt Stānhāmstęde, xx swuluncga, Gode allm*e*htgum ǫnd ðēre hālgon gesǫmnuncgæ, fore hyhte ǫnd fore ædlēane ðæs ǣcan ǫnd ðæs tōwardon līfes, ǫnd fore uncerra sāula hēla ǫnd uncerra bearna. Ǫnd mid micelre ēaðmōdnisse biddað ðæt wit mōten bīon on ðēm gemānon ðe ðǣr Godes ðīowas siondan, ǫnd ðā męnn ðe ðǣr hlāfordas wǣron, ǫnd ðāra mǫnna ðe hiora lǫnd tō ðǣre cirican saldon; ǫnd ðættæ mǫn unce tīde ymb tuælf mōnað mǫn geuueorðiae on godcundum gōdum ǫnd ǣc on ælmessan suǣ mǫn hiora dœ̄ð.

(*d*) Eft wæs *ā*nrǣd, nālas ęlnes læt,
*m*ǣrða ge*m*yndig *m*ǣg Hygelāces;
wearp ðā *w*undenmǣl *w*rǣttum gebunden
*y*rre *ō*retta, þæt hit on *eo*rðan læg,
*st*īð and *st*ȳlęcg; *st*ręnge getrūwode,
*m*undgripe *m*ægenes. Swā sceal *m*an*n* dōn,
þonne hē æt *g*ūðe ge*g*ān þęnceð
*l*ǫngsumme *l*of, nā ymb his *l*īf cearað.
Gefēng þā be *f*eaxe (nālas for *f*æhðe mearn)
*G*ūðgēata lēod *G*ręndles mōdor;
brægd þā *b*eadwe heard, þā hē ge*b*olgen wæs,
*f*eorhgenīðlan, þæt hēo on *f*lęt*t* gebēah.

(*e*) Ācwæð hine þā fram his *h*yldo and hine on *h*ęlle wearp,
on þā *d*ēopan *d*ala, þǣr hē tō *d*ēofle wearð,
se *f*ēond mid his ge*f*ērum eallum: *f*ēollon þā of heofnum
*þ*urh [swā] lǫnge swā *þ*rēo niht and dagas
þā ęnglas *u*fon on hęlle, and hēo *ea*lle forsceōp
*D*rihten tō *d*ēoflum; for þon þe hēo his *d*ǣd and word
noldon *w*eorðian, for þon hēo on *w*yrse leoht
under *eo*rðan noeðan *æ*lmihtig God
sętte *s*igelēase on þā *s*weartan hęlle.
Þǣr hæbbað hēo on *ǣ*fyn *u*ngemet lange
ealra *f*ēonda gehwilc *f*ȳr ednēowe,
Þonne cymð on *u*htan *ē*asterne wind,
*f*orst *f*yrnum cald; symble *f*ȳr oððe gār,
Sum *h*eard geswinc *h*abban sceoldon:
worhte man hit him tō *w*īte, hyra *w*oruld wæs gehwyrfed,
*f*orman sīðe *f*ylde hęlle
mid þām *a*ndsacum.

(*f*) *B*eorn sceal ge*b*īdan, þonne hē *b*ēot spriceð,
oþ þæt *c*ollenferð *c*unne gearwe
hwider *h*reþra ge*h*gyd *h*weorfan wille.
Ongietan sceal *g*lēaw hæle hū *g*æstlic bið,
þonne eall þisse *w*orulde *w*ela *w*ēste stǫndeð,
swā nū *m*issenlīce geond þisne *m*iddangeard
*w*inde bi*w*āune *w*eallas stǫndaþ,
*h*rīme bi*h*rorene, *h*ryðge þā ederas.
Wōriað þā *w*īnsalo, *w*aldend licgað

*d*rēame bi*d*rorene ; *d*uguð eal*l* gecrǫng
*w*lǫnc bī *w*ealle : sume *w*īg fornōm,
fęrede in *f*orðwege ; sumne *f*ugel oþbær
ofer *h*ēanne *h*olm ; sumne se *h*āra wulf
*d*ēaðe ge*d*ǣlde ; sumne *d*rēorighlēor
in *eo*rðscræfe *eo*rl gehȳdde :
ȳþde swā þisne *ea*rdgeard *æ*lda Scyppend,
oþ þæt *b*urgwara *b*reahtma lēase,
*ea*ld ęnta geweorc *i*dlu stōdon.

2. Give the meaning and derivation of the following words : manndrēam, mearcstapa, þusendmǣlum, eotenisc, drencan, blācung, bestīeman, bierhtu, ādrǣfan.

3. What characteristics of the Anglo-Saxon race are reflected in the early poetry?

4. Why is the dialect of Wessex taken as the standard of Old English speech?

5. Compare from a literary point of view *The Battle of Maldon* with *Beowulf and Grendel's Mother*

SECOND PAPER—Three Hours.

MIDDLE ENGLISH.

1. Translate:

(*a*) *And* wat beli*m*pð hit ȝief he fend is þe to þare gate cu*m*þ? God þurh his mucele milce ne letes us nefer fandie. Ac naþeles ȝief he fend is an unwreast mann þer beoð anú ȝerédie. þe weregede gastes þe hine uniredlice und*er*fangeð mid stiarne swupen. Alse fele unþeawes alse [he] hade upe him *and* sennenn. al swa fendes he þer ȝemet. hīne to und*er*fó. *and* to don hīne into þiesternesse. oð a domes dȝéi alle godes fend simle fra*m* his ȝesecðe abroden bienn *and* hi [habbeð] to hare lean ha*m* þe lange scel ȝeleste. Þus hit hað íbí *and* is. *and* w[u]rð oð domesdei. Ac þan*ne* hit þer-to cumþ þ*at* se hlaford a þe mucele deíe. cumþ forté ísí *and* frend *and* fend. þann cumþ all his und*er*þiede hi*m* to-fore. þer he sit mid his derew[u]rþe ȝefered mid niȝen anglene had. mid þer unwēmmed meide his moder. mid his ap*ost*len. mid þa hágefad*er*en. *and* þo haliȝe wítien. mid martiren. mi[d] hali c*on*fessore*n* mid halie meiden. mid al þan þe þer midenarde for his lufe werpeð abéc. *and* lagelice her hi*m* þenið.

(*b*) þos blaca tadden *þet* habbeð *þet* atter uppon heore heorte. bi-tacneð þes riche men þe habbeð þes mucheles weorldes ehte *and* na maȝen noht itimien þar-of to eten ne to drinken ne na god don þer-of for þe luue of godalmihtin þe haueð hit heom al geuen. ah liggeð þer-uppon alse þe tadde deð in þere eorðe *þet* neure ne mei itimien to eten hire fulle⸵ swa heo is afered leste þeo eorðe hire trukie. þeos ilke ehte þe þeos þus ouerliggeð heom turneð to swart atter for heo falleð þer-þurh in to þer stronge pine þet na mon ne mei tellen. Þeos ȝeolewe claþes. [bi-tacneð þo þet feireð heom seoluen.] for þe ȝeolewe clað is þes deofles helfter. þeos wi*m*men þe þus liuieð beoð þes deofles musestoch iclepede. for þenne þe mon wule tilden his musestoch he bindeð uppon þa swike chese *and* bret hine for þon *þet* he scolde swote smelle. and þurh þe sweote smel of þe chese; he bicherreð monie mus to þe stoke.

(*c*) Lust me nu lauerd king⸵	Lust nou mi louerd king⸵
& ich þe wulle cuðen.	and ich þe wolle cuðen.
whæt seið Rouwenne⸵	wat seiþ Rowenne⸵
fæirest wimmonnen.	fairest of al wommanne.
Hit beoð tiðende;	Hit is þe wone⸵
inne Sæxe-londe.	in Saxe-londe.
whær swa æi duȝeðe⸵	
gladieð of drenche.	
þat freond sæiðe to freonde⸵	þat freond saiþ to his freond⸵
mid fæire loten hende.	wane he sal drinke.
Leofue freond wæs hail⸵	Leofue freond wassail⸵
þe oðer sæið drinc hail.	þe oþer saiþ dringhail.
Þe ilke þat halt þene nap⸵	Þe ilke þat halt þane nap⸵
he hine drinkeð up.	þane drinke drinkþ vp.
oðer uul me þider fareð⸵	and aȝeo me hine fulþ⸵
& bi-techeð his iuere*n*.	and takeþ his ivere.
þenne þat uul beoð icumen⸵	
þenne cusseoð heo þreoien.	
Þis beoð sele laȝen⸵	Þis beoþ þe lawes⸵
into Saxe-londe.	ine Saxlonde.

(*d*) Þe rose rayleþ hire rode,
Þe leues on þe lyhte wode
  Waxen al wiþ wille;

Þe mone mandeþ hire bleo,
Þe lilie is lossom to seo,
Þe fenyl & þe fille;
Wowes þis wilde drakes,
Miles murgeþ huere makes;
Ase strem þ*a*t st*r*ikeþ stille,
Mody meneþ, so doþ mo,
Ichot ycham on of þo,
For loue þ*a*t likes ille.

(*e*) but lelliche þat ladi in ȝouþe · hadde lerned miche schame,
For al þe werk of wicchecraft · wel y-nouȝ che couȝþe,
nede nadde ȝhe namore · of nigramauncy to lere.
of coninge of wicche-craft · wel y-nouȝ ȝhe couȝde,
& brau*n*de was þat bold quene · of burnes y-clepud.
þe kinges furst child was fostered · fayre as it ouȝt,
& had lordes & ladies · it louely to kepe,
& fast gan þat frely barn · fayre forto wexe.
þe quene his moder on a time · as a mix þouȝt,
how faire & how fetis it was · & freliche schapen.
& þis þanne þouȝt sche þroly · þat it no schuld neu*er*
kuuere to be king þer · as þe kinde eyre,
whille þe kinges ferst sone · were þer a-liue.
þan studied sche stifly · as stepmoderes wol alle,
to do dernly a despit · to here stepchilderen;
Feþli a-mong foure schore · vnneþe findestow on gode.
but truly tiȝt hadde þat quene · take hire to rede
to bring þat barn in bale · botles for euer,
þat he ne schuld wiȝtli in þis world · neu*er* weld reaume.

(*f*) Hy byeþ glede of god onzyginde. hy byeþ glede of zuo moche of hare oȝene holynesse: and uor þet ech loueþ oþren ase hi*m* zelue. ase moche blisse heþ ech of oþres guode: ase of his oȝene. Þeruore by ziker / uor eurych heþ aseuele blyssen: ase he heþ uelaȝes. and aseuele blissen to echen: ase his oȝene of alle. and þeruore eureich more loueþ wyþoute comparisoun god: þet hym and oþre made / þanne hi*m* zelue / and alle oþre. More hy byeþ glede wyþ-oute gessynge of godes holynesse: þanne of his oȝene / and of alle oþre myd hym. Yef þanne on onneaþe nymþ al his blisse. hou ssel he nyme zuo uele and zuo manye blyssen? And þeruore hit is yzed. guo into þe blysse of þyne lhorde. naȝt þe blisse of þine lhorde / guo in to þe. uor hy ne may. Þerefter / hy herieþ god wyþ-oute ende / wyþ-oute werynesse. ase hyt is y-wryte. Lhord / y-blyssed by þo þet wonyeþ ine þyne house / in wordles of wordles : ssolle [hy] herye þe.

2. Give an account of the dialect in which *The Brut* is written, and estimate the qualities of the work as chronicle and poem.

3. Characterise the Northern English dialect of the 13th and 14th centuries, and name important literary products by which it is illustrated.

4. Discuss the religious and the literary importance of Langland and Wyclif.

THIRD PAPER—Three Hours.

1. Give an account of the Cycles of Romance utilised by English poets before Chaucer.

2. Contrast the work done by Chaucer for the forms of English poetry with what was accomplished respectively by Langland and Gower.

3. Estimate the importance of *Piers the Plowman* as illustrating the age to which it belongs.

4. Compare Chaucer and Gower as poetical interpreters.

5. "*The Prologue* is not Chaucer's greatest work, but it is the most perfect." Discuss.

6. Contrast the artistic possibilities of Chaucer's Pilgrimage with those of Boccaccio's Garden.

7. It has been said of Chaucer that there is in him something of the disinterestedness that made the Greeks masters in art. Comment on this.

8. Arrange the *Canterbury Tales* according to the four groups now recognised by Chaucer experts.

9. Estimate the importance of the prose written in the age of Chaucer.

10. Give a brief account of the English poetry produced between Chaucer and Surrey.

FOURTH PAPER—Three Hours.

1. Give an account of Elizabethan literary criticism.

2. Explain fully why Spenser is called "the poets' poet."

3. Characterise Milton's Satan, and compare him with similar figures in other epic or dramatic poems.

4. Give a brief outline of the discussion connected with the *Letters of Phalaris*, *or* of the literary debate as to whether Pope was a poet.

5. Illustrate the importance of the eighteenth century as a period of prose.

6. Compare Addison and Steele as literary critics.

7. Say something of the life and work of two of these: John Gay, Matthew Prior, Ambrose Philips, Richard Savage, James Macpherson.

8. State briefly what the French Revolution did for literature.

9. It has been said of Wordsworth that he "reminds us of those saints of Dante who gather brightness by revolving on their own axis." Amplify this.

10. Estimate Carlyle as essayist and historian; *or*, compare Thackeray and Dickens as novelists.

FIFTH PAPER—Three Hours.

SHAKESPEARE.

1. Criticise Ben Jonson's statement that Shakespeare had "small Latin and less Greek." What may the poet have learned at school?

2. Illustrate by reference to his language and characters the advantages Shakespeare had through his experience as a country boy.

3. Show the importance of Lyly and Marlowe in the development of Shakespeare's genius.

4. "Shakespeare has been sometimes taxed with the barbarism of profuseness and exaggeration." Examine this charge.

5. Discuss outstanding examples of low characters and comic scenes in the tragedies.

6. Discuss the question of Hamlet's madness.

7. "Shakespeare showed great judgment in his first scenes; they contained the germ of the ruling passion which was to be developed hereafter." Illustrate this from the plays.

8. Show that the dramatic interest in the plays rests on the characters, not on the plot.

SIXTH PAPER—Three Hours.

SHAKESPEARE.

1. Summarise the existing evidence as to the prosperity of Shakespeare from 1592 onwards.

2. Compare *Lucrece* with *Venus and Adonis* as illustrating the growth of the poet's literary powers.

3. Show how certain features of the dramas may be used in determining the order of their composition.

4. State the case for the doubtful plays in the Shakespeare canon.

5. Discuss Shakespeare's use of double plots, illustrating from any one of the tragedies.

6. Give a full account of one of the following characters and its share in the action of the play: Brutus, Beatrice, Hermione.

7. Summarise the difficulties connected with the interpretation of the Sonnets.

8. Describe and discuss the treatment given to Shakespeare's works in the Restoration Period.

E.—GROUP OF MODERN LANGUAGES.

FRENCH LANGUAGE AND LITERATURE.

FIRST PAPER—Three Hours.

1. Traduire en anglais :

LE VOYAGE DES BORDERS.

Il quitta Edimbourg le 5 mai 1787, en compagnie d'un de ses nouveaux amis, Robert Ainslie, dont le père était fermier dans les environs de Dunse. Son intention était de s'en retourner à Mossgiel, en parcourant le pays qui s'étend, de Berwick à Carlisle, le long de la frontière anglaise, et qui est si connu dans la poésie et dans l'histoire d'Ecosse sous la nom de *Borders*. Il voulait faire, disait-il, "quelques pèlerinages sur le sol classique de la Calédonie." Il se proposait, sans doute, d'y rechercher des inspirations poètiques, des scènes, des souvenirs, dont il put faire son profit. Il n'est pas sans intérêt, pour l'étude de ses préférences d'esprit et en même temps pour la notation exacte de son état d'âme, de voir ce qu'il a su retirer, pendant ce voyage, soit des aspects de la nature, soit des associations humaines qui y sont mêlées.

Le pays qu'il allait visiter possède un grand charme tranquille et mélancolique. Il n'est pas très puissant, ni très mouvementé ; c'est une région de collines et de montagnes moyennes, arrondies par l'usure des glaciers disparus. Elle s'etend, avec l'allure des hauts plateaux, en calmes ondulations liées les unes aux autres, qui se rencontrent, se coupent ou se marient, en courbes sereines et harmonieuses. Le paysage se prolonge de tous côtés, uniforme, partout semblable à lui-même et cependant partout séduisant ; indéfiniment il s'enfuit d'un même rythme large et noble et, à peu près à égale hauteur, pousse jusqu'au fond du ciel la houle paisible de ses cimes. Ces montagnes souples s'abaissent vers les vallées, en descentes très douces, en inclinaisons molles et coulantes, en fléchissements sans heurt, en plis traînants. La forme de la contrée est très-apparente, car rien ne l'interrompt ou ne la recouvre. Un de ses caractères est l'absence de toute haute végétation ; les bois sont ramassés dans le fond des vallées plus importantes ; ailleurs, peu ou pas d'arbres, sauf quelques bouquets de bouleaux et de

mélèzes semés sur les plus basses pentes. On a, dans son ampleur, la beauté des paysages nus, à grandes lignes maîtresses qui se déroulent dans le ciel, y mettant un mouvement lorsqu'il y est pur et immuable, y mettant un repos lorsqu'il est rempli de la mobilité des nuées.

A. Angellier—Robert Burns.

LA CHUTE DES ETOILES.

Tombez, ô perles dénouées,
Pâles étoiles, dans la mer.
Un brouillard de roses nuées
Emerge de l'horizon clair ;
A l'orient plein d'étincelles
Le vent joyeux bat de ses ailes
L'onde que brode un vif éclair.
Tombez, ô perles immortelles,
Pâles étoiles, dans la mer.

Plongez sous les écumes fraîches
De l'Océan mystérieux.
La lumière crible de flèches
Le faîte des monts radieux ;
Mille et mille cris, par fusées,
Sortent des bois lourds de rosées ;
Une musique vole aux cieux.
Plongez, de larmes arrosées,
Dans l'Océan mystérieux.

. . . .

Heureux qui vous suit, clartés mornes,
O lampes qui versez l'oubli !
Comme vous, dans l'ombre sans bornes
Heureux qui roule enseveli !
Celui-là vers la paix s'élance :
Haine, amour, larmes, violence,
Ce qui fut l'homme est aboli.
Donnez-nous l'éternel silence,
O lampes qui versez l'oubli.

Leconte de Lisle, *Poèmes barbares.*

2. Translate into French :

But, I think, the noblest sea that Turner has ever painted, and, if so, the noblest certainly ever painted by man, is that of the Slave Ship, the chief Academy picture of the Exhibition of 1840. It is a sunset on the Atlantic, after prolonged storm ; but the storm is partially lulled, and the torn and streaming rainclouds are moving in scarlet lines to lose themselves in the hollow of the night. The whole surface of sea included in the picture is divided into two ridges of enormous swell, not high, nor local, but a low broad heaving of the whole ocean, like the lifting of its bosom by deep-drawn breath after the torture of the storm. Between these two ridges the fire of the sunset falls along the trough of the sea, dyeing it with an awful but glorious light, the

intense and lurid splendour which burns like gold, and bathes like blood. Along this fiery path and valley, the tossing waves by which the swell of the sea is restlessly divided, lift themselves in dark, indefinite, fantastic forms, each casting a faint and ghastly shadow behind it along the illumined foam.

RUSKIN, *Modern Painters.*

Hereat Peona, in their silver source,
Shut her pure sorrow drops with glad exclaim,
And took a lute, from which there pulsing came
A lively prelude, fashioning the way
In which her voice should wander. 'Twas a lay
More subtle cadenced, more forest wild
Than Dryope's lone lulling of her child;
And nothing since has floated in the air
So mournful strange. Surely some influence rare
Went, spiritual, through the damsel's hand;
For still, with Delphic emphasis, she spanned
The quick invisible strings, even though she saw
Endymion's spirit melt away and thaw
Before the deep intoxication.

KEATS, *Endymion.*

SECOND PAPER—THREE HOURS.

1. Traduire en français moderne :

Dist Oliviers : "N'ai cure de parler.
Vostre olifant ne deignastes soner,
Ne de Charlon mie vos nen avez :
Il n'en sét mot, n'i at colpes in ber ;
Cil qui la sont ne font mie a blasmer.
Car chevalchiez a quant que vos podez,
Seignor baron, el champ vos retenez ;
Por Dieu vos pri que seiez porpensét
De cols ferir e receivre e doner.
L'enseigne Charle n'i devoms oblider."
Qui donc odist Monjoie demander,
De vassalage li podust remembrer.
Puis si chevalchent, Dieus, par si grant fiertét !
Brochent ad ait por lo plus tost aler,
Si vont ferir : que fereint il el ?
E Sarrazin nes ont mie dotez :
Frans e paiens es les vos ajostez.

CHANSON DE ROLAND.

2. A metrical and grammatical study of the preceding lines.

3. A grammatical and literary study of the following extract of Montaigne's *Essays* :

Il y a, ce me semble, en Xénophon un tel discours où il montre que nous devons plus rarement prier Dieu, d'autant qu'il n'est pas aisé que nous puissions si souvent remettre notre âme en cette assiette réglée,

réformée et dévotieuse, où il faut qu'elle soit pour ce faire : autrement nos prières ne sont pas seulement vaines et inutiles, mais vicieuses. "Pardonne-nous, disons-nous, comme nous pardonnons à ceux qui nous ont offensé" ; que disons-nous par là, si non que nous lui offrons notre âme exempte de vengeance et de rancune ? Toutefois nous invoquons Dieu et son aide au complot de nos fautes et le convions à l'injustice :

Quæ, nisi seductis nequeas committere divis.

L'avaricieux le prie pour la conservation vaine et superflue de ses trésors ; l'ambitieux pour ses victoires et conduite de sa fortune ; le voleur l'emploie à son aide pour franchir le hasard et les difficultés qui s'opposent à l'exécution de ses méchantes entreprises, ou le remercie de l'aisance qu'il a trouvé à dégosiller un passant ; au pied de la maison qu'ils vont écheler ou pétarder, ils font leurs prières, l'intention et l'espérance pleine de cruauté, de luxure et d'avarice. . . .

Une vraie prière et une religieuse réconciliation de nous à Dieu, elle ne peut tomber en une âme impure et soumise, lors même, à la domination de Satan. Celui qui appelle Dieu à son assistance pendant qu'il est dans le train du vice, il fait comme le coupeur de bourse qui appellerait la justice à son aide, ou comme ceux qui produisent le nom de Dieu en témoignage de mensonge :

Tacito mala vota susurro
Concipimus.

MONTAIGNE, *Les Essais*, Livre I., Ch. LVI.

THIRD PAPER—THREE HOURS.

1. Traiter *l'un* des sujets suivants :

(*a*) Molière et son temps.

(*b*) Quelle est, à votre sens, la valeur morale du *Misanthrope*, ou des *Femmes savantes* ou du *Tartufe*.

2. Traiter aussi *l'un* des sujets suivants :

(*a*) Le pessimisme d'Alfred de Vigny.

(*b*) La langue poètique de Victor Hugo.

(*c*) Les "Nuits" d'Alfred de Musset.

(*d*) Le théâtre de Marivaux.

(*e*) Apprécier *Le Joueur*.

GERMAN LANGUAGE AND LITERATURE.

FIRST PAPER—THREE HOURS.

I. TRANSLATION.

1. Translate into English :

(*a*) Die 1816 zu Jena gegründete Burschenschaft verbreitete sich rasch über alle Universitäten und ward der Herd offen zur Schau getragener vaterländischer Begeisterungen und Hoffnungen wie unglückseliger Zettelungen und geheimer Gesellschaften, welche nur

allzu viele Ähnlichkeit mit den Geheimbunden in Italien und Spanien hatten. In den Kreisen der Burschenschaft wurde neben der berechtigten Sehnsucht nach Deutschlands Glück und Grösse viel unklare, ziellose, ingrimmige Erbitterung genährt, und die Gärung und Spannung erreichten mit dem Wartburgfest von 1817 einen so hohen Grad, dass die Regierungen auf Österreichs Betrieb nicht nur gegen die deutsche Burschenschaft, sondern gegen die gesamten Universitäten, gegen die Freiheit der Wissenschaft und Litteratur, gegen jede ideale Anschauung, welche eine Verbesserung der bestehenden Zustände auch nur für möglich hielt, gegen die Träume der Jugend wie gegen die missliebigen Wünsche der reifern, in schlimmen Tagen bewährten Männer mit den Karlsbader Beschlüssen und so roher Gewalt einschritten, dass nunmehr erst die leidenschaftlichste Opposition erwachte, vor allem aber ein Gefühl der Hoffnungslosigkeit, des Verzweifelns an der eigenen Kraft und des bewundernden Hinblicks auf das Ausland erzeugt ward.

(*b*) Aber sie muszt hernider eilen,
Die Erd sich lasen zuerkuelen
  Vnd sich selbs im Moer zuerfrischen
  Vnd den feurig Schwais abzuwischen.
Idoch zulezt, eh sie verlauf,
Sprang sie zu etlich malen auf
  Hinter den Bergen mit jrn plicken,
  Zusehen, wie sie sich nach schicken.
Vnd als sie es sah schir vollpracht,
Sprang sie noch ains zu guter nacht,
  Vnd befal die Gselschaft dem Rein,
  Der sie lait gar inn dStat hinein. FISCHART.

(*c*) Zwytracht vnd vngehorsamkeit
Den krysten gloub zerstoeren dut,
On nott verguesst man krysten blut;
Nyeman gdenckt, wie nach es jm sy,
Vnd waent doch allweg blyben fry,
Bisz jm vnglueck kumbt fuer syn thur,
So stoszt er dann den kopff har fuer.
Die porten Europe offen syndt,
Zu allen sitten ist der vyndt,
Der nit schloffen noch ruwen dut,
In duerst allein noch Christen bluot.

2. Translate into German:

To understand the true position of Germany one must never overlook the fact that the Empire still consists of a conglomeration of German states, independent in many respects, but which for the furtherance of their common interests have agreed to transfer various kinds of rights to the Empire, and, by mutual consent, they acknowledge the Crown of Prussia as presiding over their now United States. Their sovereigns have, further, conferred upon the King of Prussia, in his capacity as President of this Federation, the title of "German Emperor," which is hereditary and which carries with it certain high public functions. He represents the Empire in all

international matters, and makes peace and war in its name. In order to declare war the consent of the "Bundesrath" is required unless for purely defensive purposes. He concludes treaties with foreign powers, and sends and receives Ambassadors and Ministers. In so far, however, as these treaties deal with matters falling within the limits of imperial legislation, the assent of the Federal Council is necessary for their conclusion and the approval of the "Reichstag" is requisite for their validity.

II. HISTORICAL GRAMMAR.

(*Answer* SEVEN *of the following questions.*)

1. Give the scheme of declension of the principal types of nouns in Middle High German.

2. What vowels and diphthongs does Early West Germanic possess? Trace their development to New High German.

3. Show by examples how Verner's law interferes with the working of Grimm's law.

4. Form words by means of 'Ablaut,' 'Umlaut,' from the following roots: berg, (be)weg-, fliess-.

5. What vowel sounds, differentiated in M.H.G., have fallen together in N.H.G.?

6. Account for the double forms: ward, wurde; fragte, frug, bewegte, bewog.

7. Which are the various ways of forming compound nouns in German? Illustrate by examples.

8. What changes have the vowels undergone since the thirteenth century?

9. Why is the Strasburg Oath of such importance in the History of the German Language?

10. By what linguistic facts are the Germanic languages separated from the other Indo-Germanic languages?

11. How has the German conjugation been affected by *Analogie* or *Levelling*?

SECOND PAPER—THREE HOURS.

A.

1. Translate into Modern German:

Von dem gedanke wart si dô,
vil ringes muotes unde frô,
und *hete* deheine sorge mê,
wan ein vorhte diu *tete* ir wê,
sô siz ir herren sagte,
daz er dar an verzagte,
und swenne siz in allen drin
ge*tæte* kunt, daz si an in

der gehenge niht en*funde*
daz mans ir iht *gunde*.
Des wart sô grôz ir ungehabe
daz ir vater dar abe
unde ir muoter wart erwaht
als ouch an der vordern naht.
HARTMANN VON AUE.

Give the principal parts of the verbs in italics.

Explain *gehenge*, *mans*, *iht*, *ringes*. What is the force of the particle *ge-* in *getæte*?

2. Translate:

(*a*) Er neig ir flizeclîche: bî der hende si in vie.
Wie rehte minnecliche er bi der frouwen gie!
mit lieben ougenblicken ein ander sâhen an
der herre und ouch diu frouwe: daz wart vil tougenlîch getân.

Wart iht dâ friunntliche getwungen wiziu hant
von herzen lieber minne, daz ist mir niht bekant.
doch enkan ich niht gelouben daz ez wurde lân:
sie het im holden willen kunt vil schiere getân.
NIBELUNGEN.

Give the infinitive of *neic*, *vie*, *gie*, *kan*; decline (in the singular and plural) *si*, *ez*, *daz*. Conjugate the present tense of *lân*, and the preterite of *sîn*.

(*b*) Diu ir unmâzen scœne was vil witen kunt,
und ir hôhgemüete zuo der selben *stunt*
an der *juncfrouwen* sô manec helt ervant:
er ladete vil der geste in *daz* Gúnthéres lant.

Swaz man der werbenden nâh ir minne sach,
Kriemhilt in ir sinne ir selber nie verjach,
daz si deheinen wolde ze eime trûte hân.
er was ir noch vil vremde, dem si wart *sider* undertân.
NIBELUNGEN.

Comment on the words in italics.

B.

Write an essay in German on one of the following subjects:

1. Der Werth der klassischen und der modernen Sprachen für die Gegenwart.

2. Gudruns Charakter.

3. Welchen Einfluss hatte die Entdeckung Amerikas auf die europäische Civilisation?

THIRD PAPER—THREE HOURS.

Answer SIX *of the following questions.*

1. Die Hauptcharakterzüge der mittelhochdeutschen Dichtung.

2. Welchen Einfluss hatte die Reformation auf die dramatische Poesie?

3. Die Prosaliteratur im 17 Jahrhundert mit besonderer Berücksichtigung des Romans.

4. Der Einfluss der italienischen Reise auf Goethes dichterische Entwickelung.

5. Vergleichen Sie Goethes Aufenthalt in Strassburg mit demjenigen in Wetzlar.

6. Erzählen Sie den Inhalt von Schillers drei Wallensteindramen.

7. Die literarischen Früchte von Goethes Beziehungen zu Friederike Brion, Lila Schönemann und Frau von Stein.

8. Welchen dichterischen Ausdruck gab Goethe den grossen Politischen Ereignissen seiner Zeit?

9. Entwickeln Sie den Grundunterschied zwischen Schiller und Goethe und der Hand des folgenden Schillerschen Epigramms:

Die Übereinstimmung.

Wahrheit suchen wir Beide, Du aussen im Leben, ich innen
In dem Herzen, und so findet sie jeder gewiss:
Ist das Auge gesund, so begegnet es aussen dem Schöpfer;
Ist es das Herz, dann gewiss spiegelt es innen die Welt.

10. (*a*) Ist die "Braut von Messina" eine Schicksalstragödie?
(*b*) Stimmt Schillers Behandlung des Chors mit der des griechischen Dramas überein?

III. FOR DEGREE OF B.Sc.

A.—IN PURE SCIENCE.

FIRST EXAMINATION.

Mathematics—See pp. 539—543.
Natural Philosophy—See pp. 543—548.
Chemistry—See p. 620.
Botany—See p. 619.
Zoology—See p. 619.

FINAL EXAMINATION.

Mathematics—See pp. 559—564.
Natural Philosophy—See pp. 565—571.

ASTRONOMY.

FIRST PAPER—One Hour.

1*a*. At what latitude does the ecliptic coincide once a day with the horizon? Is there anything peculiar about the time of sunrise and sunset at this latitude?

1*b*. Why is the difference of the Greenwich mean times of successive "Transits of the first point of Aries" a constant quantity? What is this difference called?

2*a*. Find, for the year 14,000, the approximate right ascension and declination of a star which is now near the pole of the heavens, and give its meridian zenith-distance for a place at latitude 55°.

2*b*. Draw a diagram of the celestial sphere which leads to the determination of local sidereal time from Greenwich mean time.

3*a*. The *Nautical Almanac* gives the right ascension of the moon when it passes the Greenwich meridian and its variation in a lunar hour. Show that the observation of the sidereal time of transit of the moon over the meridian at another place gives the longitude of the place. Has the observation to be corrected for parallax?

3*b*. Explain Sumner's graphical method for finding the position on the earth from zenith-distances of the sun.

4*a*. Why is a photographic lens of 5 cm. aperture and 20 cm. focal length more effective in photographing large faint nebulae than the large telescopes?

4*b*. Draw the spherical triangle which gives the hour-angle of a star at time of transit over the middle wire of a transit instrument as a function of the errors of the transit instrument.

5*a*. How would you determine the azimuth of a terrestrial point whose altitude above the horizon is known, if you had a sextant, a chronometer, and a *Nautical Almanac* at your disposal?

5*b*. Investigate in what great circle azimuth observations ought to be made.

SECOND PAPER—ONE HOUR.

1*a*. How is the proper motion of a star determined?

1*b*. Enter the position of a star in a diagram of the celestial sphere and point out the right ascensions and declinations (1) as referred to the mean equinox at zero epoch, (2) as referred to the mean equinox at epoch t, and (3) as referred to the true equinox.

2*a*. Draw the celestial sphere for latitude 30° sidereal time 6^h and enter the apparent position of a star $\alpha = 3^h$, $\delta = +30°$. Let the date be 21 June and let the star have an appreciable parallax. Draw (1) the great circle in which the true position of the star lies, (2) the great circle in which the heliocentric position lies.

2*b*. Prove that the apparent direction towards a planet at time t is parallel to the true direction at the time t minus aberration time.

3*a*. For what reasons does the hour-angle of the moon not increase at a uniform rate?

3*b*. Find the angular diameter of the shadow-circle traversed by the moon at a lunar eclipse.

4*a*. Derive the right ascension of the astronomical mean sun referred to the true vernal point, and say what periodic quantities the equation of time contains.

4*b*. Why can the mass of the earth not be so accurately determined as that of a planet which has a satellite?

5*a*. Give a short account of the libration of the moon.

5*b*. At the points where the orbits of a meteor and the earth intersect let the velocity of the meteor equal that of the earth, and let the angle enclosed between the direction of the velocity and the radius vector be 45°. At what point of its orbit is the meteor, and what is the direction and length of its major axis?

THIRD PAPER—One Hour.

1*a*. Explain, with the aid of a diagram, the fundamental idea of the theory of occultations of a star.

1*b*. Explain how Kepler's equation $E - e \sin E = M$ can be solved, e and M being given quantities.

2*a*. Derive the differential equations in the motion of a mass round a central mass, and prove that the motion is in a plane.

2*b*. Draw the spherical triangles which determine the rectangular heliocentric coordinates of a planet from the polar coordinates r and u.

3*a*. Derive a formula of interpolation which contains the successive differences of the function

$$f(a + ia)(i \text{ integer}) f'(a - \tfrac{1}{2}) f''(a) f'''(a - \tfrac{1}{2}) f^{iv}(a - 1) f^{v} a - \tfrac{3}{2}.$$

3*b*. A table of arc tan α is wanted at intervals of 2° of α. Transform

$$\text{arc tan } \alpha = \int_0^x \frac{\alpha x}{1 + x^2}$$

so that the rules of Mechanical Quadrature can be applied.

FOURTH PAPER—Two Weeks.

(*Questions to be solved at home.*)

1. Find, in the problem of three bodies, the differential equation for the mean longitude L, on the supposition that the perturbation function is expressed as a function of L and of the elements $a\ e\ \pi\ N\ i$. Utilise the differential equations for the canonic constants.

2. Two fixed central masses m_1 and m_2 at mutual distance $2a$ attract a mass moving in a plane which contains the two masses. Represent the kinetic energy and the potential choosing elliptic coordinates q_1 and q_2 defined by $r_1 + r_2 = 2q_1$, $r_1 - r_2 = 2q_2$, where r_1 and r_2 designate the distances of the mass from the two centres. Derive Hamilton's partial differential equation of the characteristic function, and give the integrals of the canonic equations.

3. Find the potential of a solid homogeneous spheroid upon an exterior particle with reference to terms depending on the square of the eccentricity. Say in what way the perturbations produced by the spheroid in the elliptic motion might be derived.

SCIENTIFIC CALCULATIONS—TWO WEEKS.

Calculate an ephemeris of the minor planet No. 314 from 1902, August 22 to September 23.

PRACTICAL WORK.

1. Observe the transits of stars with the Transit Instrument, and determine the errors of the instrument and the correction of the sidereal clock.

2. Observe altitudes of the sun near the meridian with a sextant, and calculate the geographical latitude.

CHEMISTRY.

FIRST PAPER—THREE HOURS.

(*Only* SIX *questions to be answered.*)

1. State the Law of Mass Action and discuss its application in the following cases:

(*a*) The formation of ethyl acetate from alcohol and acetic acid.
(*b*) The dissociation of calcium carbonate.

2. What is meant by the "strength" of an acid? Indicate briefly different methods by which the relative strengths of acids have been determined.

3. Explain how nitric acid can be obtained from nitrogen, ammonia from nitric acid, and nitrogen from ammonia. What is hydrazoic acid? Mention one method by which it can be prepared and describe its properties.

4. Describe methods for the preparation of the following substances: Anhydrous aluminium chloride, hydriodic acid, chromyl chloride and sodium nitrite.

5. Indicate how the following processes in qualitative analysis are carried out, and explain the principles involved:

(*a*) Separation of iron, aluminium and chromium.
(*b*) Separation of arsenic from the metals of the copper group.
(*c*) Detection of an iodate.

6. Describe and explain methods for the estimation of the following substances in aqueous solution:

(*a*) Hydrogen peroxide.
(*b*) Arsenious oxide.
(*c*) Potassium cyanide.

7. Discuss the compounds which silica forms with metallic bases, with particular reference to their melting points. State, as a conclusion from your observations, what silicious compounds you would select for apparatus which is to be exposed to very high temperatures.

8. Describe the changes that occur when a piece of high carbon steel is slowly or quickly cooled from, say, 1200° C. to room temperature? What is the general effect of annealing on a piece of metal?

SECOND PAPER—Three Hours.

(*Only* SIX *questions to be answered.*)

1. What indicators would you employ in the titration of ammonia and acetic acid respectively? Explain the reasons for your selection in the light of the dissociation theory.

2. Give a brief account of the methods employed in spectroscopic investigation. Show how the use of the spectroscope has led to the discovery of new elements, and has helped to elucidate the constitution of certain organic compounds.

3. A substance has the molecular formula C_4H_8O. Suggest possible constitutional formulae, and indicate experiments you might carry out in order to determine which was the correct one.

4. Describe in detail the preparation of one of the following substances:—cinnamic acid, ethyl benzoate, mono-ethylaniline or benzophenone.

5. Explain the methods by which the alkyl cyanides and iso-cyanides can be obtained, and show how their constitutional formulae have been established. What evidence have we as regards the constitution of hydrocyanic acid and the metallic cyanides?

6. Mention any reactions you are acquainted with in which from *one* organic substance, by removal of the elements of water, one or more new compounds are obtained. Explain in each case how the dehydration is to be effected.

7. Describe exactly how you would proceed in order to obtain a solution of diazobenzene chloride, and write equations showing some of the more important reactions which can be carried out with the aid of such a solution.

8. State what you know about the so-called oxonium salts, and discuss the evidence in favour of the theory of tetravalent oxygen.

PHYSIOLOGY—Three Hours.

1. Describe the structure of the pancreas. Discuss the action of the constituents of the pancreatic juice upon the contents of the alimentary canal.

2. Explain what is meant by the term "respiratory quotient." How is it affected by the nature of the diet?

3. Give an historical account of the discovery of the motor regions of the cerebral cortex, and indicate, by a drawing, the general position of the motor centres.

4. Describe the minute structure of the retina in man, and state what you know concerning the origin and function of visual purple.

5. Describe the mechanism of the bones of the middle ear, mentioning the muscles and nerves found in that region.

6. Give an account of the olfactory mucous membrane. How is it related to the olfactory region of the brain? How may it be acted on by odours?

PRACTICAL PHYSIOLOGY—Six Hours.

A. Histology.

1. Make a permanent stained preparation from the paraffin block supplied to you. Describe and draw the section. Send in two sections.

2. Make a permanent preparation of the fresh tissue supplied, and draw and describe the preparation.

3. Identify (but do not describe) the six sections supplied.

B. Physiological Chemistry.

1. Make a qualitative analysis of the fluid marked A. Identify two organic substances only.

2. Make a quantitative estimate of the fluid marked B for one organic substance.

3. Prepare a spectrum of the blood colouring matter, according to the question put before you.

C. Experimental Physiology.

Perform the experiment mentioned on the card on the table, and show graphic tracings of the result.

GEOLOGY—Three Hours.

(Six *questions to be answered.* One *question must be taken from* each *section. The other* three *may be taken from any part of the paper.*)

A. Mineralogy and Petrology.

1. Describe the amphiboles and the pyroxenes. Give in tabular form their chief differences.

2. Describe five of the following minerals: Sanidine, tourmaline, leucite, biotite, microcline, garnet.

3. Describe the following rocks: (*a*) Granite Porphyry or Eurite of Ailsa Craig, (*b*) Hornblende Schist, (*c*) Ophitic Dolerite, (*d*) Nepheline Syenite.

B. General Geology.

1. What do you know of the chief types of deposits at present being laid down on the sea-bottom? Mention to what extent each is represented among the older rocks.

2. Describe the usual sequence of events during a volcanic eruption. Detail any points of difference between the eruptions of Vesuvius, those of the Sandwich Island volcanoes and those of the volcanoes (Pelée and Soufrière) of the West Indies.

3. Give an account of the geological phenomena due to upheaval and depression of the earth's crust. Give some of the probable causes.

C. STRATIGRAPHICAL GEOLOGY.

1. Describe the lower half of the Carboniferous System (below the Millstone Grit) with special reference to its development in the district round Glasgow.

2. Describe the Jurassic System.

BOTANY.

1. Describe the Gametophyte and the embryogeny of Lycopodium, and point out the bearing of any of the characters mentioned upon the question of the descent of the Archegoniatae.

2. What is meant by the Monostolic, Polystolic, and Astolic conditions? Give examples of each: compare the stole as a vascular unit with the older vascular unit—viz., the vascular bundle.

3. Illustrate by means of examples (giving in each case the full name and natural order) the different positions and modes of honey-secretion. In the case of flowers, describe how theft by unbidden guests may be prevented.

4. Give an account of the manner in which various Fungi attack their hosts, naming at least three from distinct families, and describing in detail the method of each.

5. Give a detailed description of any one fossil from the coal, and compare it with its nearest living allies.

6. Show by examples that the inferior or superior position of the ovary is not always a safe guide as to affinity.

7. Discuss the sources of nitrogenous supply in plants.

B.—IN ENGINEERING.

FIRST EXAMINATION.

MATHEMATICS.

FIRST PAPER—THREE HOURS.

(NOTE.—*Candidates may obtain* FULL *marks by doing correctly about* TWO-THIRDS *of this paper.*)

1. Regular polygons of n sides are inscribed in and circumscribed about a circle of radius R; establish an expression in terms of n and R for the area of each and deduce the usual formula for the area of a circle.

Using the tables, calculate by how much per cent. the areas of the polygons differ from the area of the circle when n is equal to 40.

2. Multiply $\cos A + i \sin A$ by $\cos B + i \sin B$ and *divide* the product by $\cos C - i \sin C$, i denoting $\sqrt{(-1)}$. What does the quotient become if the sum of the angles A, B, and C is a right angle?

Resolve $x^8 - 2x^4 \cos \theta + 1$ into four real quadratic factors.

3. Find the tangent of the angle between the straight lines

$$y=mx+c,\ \ y=m'x+c'$$

and deduce the condition that the straight lines

$$ax+by+c=0,\ \ a'x+b'y+c'=0$$

should be perpendicular.

The vertices of a triangle are $(a, 0)$, $(-a, 0)$, (b, c); write down the equations of three altitudes of the triangle and show that the three altitudes all pass through the same point.

4. Find the condition that the straight line $lx+my=n$ should touch the circle $x^2+y^2=a^2$.

Show that if tangents be drawn from the circle $x^2+y^2=4a^2$ to the circle $x^2+y^2=a^2$ the chord of contact will always touch the circle $x^2+y^2=\frac{1}{4}a^2$.

5. Show that the locus of the middle points of a series of parallel chords of a parabola is a straight line.

Find the locus of the middle points of all chords of a parabola which pass through the focus.

6. Show that the normal at any point of an ellipse bisects the angle between the focal radii to the point.

If the normal at P meets the major axis at G and if GK is drawn perpendicular to the focal radius SP show that GK is equal to $e\,.\,MP$ where e is the eccentricity and MP the ordinate at P.

7. Find from first principles the derivative of

$$\text{(i) } x^4;\quad \text{(ii) } \frac{1}{x^4};\quad \text{(iii) } \sqrt{x}.$$

If $f(x)=x^2+\dfrac{16}{x}-16$, find $f'(x)$ and $f''(x)$. Trace the curve $y=f(x)$ and give the abscissae of the points where it crosses the axis of x.

8. Show that when n becomes infinite $\left(1+\dfrac{1}{n}\right)^n$ tends to a definite limit, and use the result to find the derivative of $\log x$.

Differentiate

$$\text{(i) } \log(x+a+\sqrt{x^2+2ax});\quad \text{(ii) } e^{ax}\cos(bx+c).$$

9. Find the n^{th} derivative of $\sin x$ and then expand $\sin x$ in a series of ascending powers of x by Maclaurin's theorem.

Show that when x is so small that powers of x above the fourth may be neglected

$$\sin x=x\sqrt[3]{\cos x}.$$

10. Evaluate the integrals:

$$\int\frac{x^3+x+1}{x+1}\,dx;\qquad \int\frac{x+1}{\sqrt{(5+4x-x^2)}}\,dx;$$

$$\int_0^{2\pi}\cos^2 3x\,dx;\qquad \int_0^{\infty}e^{-x}\sin x\,dx.$$

11. If s denotes the length of an arc of the curve $y=f(x)$ measured from some fixed point on it show that

$$\frac{ds}{dx}=\sqrt{\left\{1+\left(\frac{dy}{dx}\right)^2\right\}}.$$

Find the length of an arc of the parabola $4ay=x^2$ measured from the origin.

12. The area S of the section of a solid by a plane perpendicular to the axis of x is given by

$$S=A+Bx+Cx^2$$

where A, B, C are constants and x is the distance of the section from the origin; show that the volume of the solid between the sections for which $x=a$ and $x=b$ is expressed by

$$\int_a^b Sdx.$$

and calculate its value.

A sphere of radius R is divided into two portions by a plane at distance $R-h$ from the centre of the sphere; calculate the volume of each portion.

SECOND PAPER—See p. 541.

NATURAL PHILOSOPHY.

FIRST PAPER—THREE HOURS.

(NOTE.—*Candidates are requested not to attempt more than* NINE *of the following questions, of which* FOUR *are to be taken from questions* 1 *to* 8.)

1. Establish expressions for the component accelerations of a moving particle, the components being parallel to two fixed rectangular axes. Show that the force acting on a particle may be expressed either as a time-rate or as a space-rate, and give the expressions.

A uniform chain, 16 feet long and weighing an ounce per linear foot, hangs with its upper end attached to a hook in the ceiling of a room and its lower end just touching the floor; if the hook breaks, what will be the pressure on the floor when half the chain has fallen?

2. A particle is projected with velocity V in a direction making an angle α with the horizontal and moves under the action of gravity; find the range on a plane inclined at an angle β to the horizontal, and having a line of greatest slope passing through the point of projection, the resistance of the air being neglected.

If the resistance be not neglected but if it be supposed to vary as the velocity, write down and integrate the equations of motion; give the equation in t that determines the time that elapses till the particle strikes the plane.

3. Write down and integrate the equation of simple harmonic motion.

A crank OP of length a rotates with uniform angular velocity ω about an axle through a fixed point O; a connecting rod of length b joins P to the end D of a piston which is constrained to move in a straight line through O at right angles to the axle. If b is so large compared with a that all powers of a^2/b above the first may be neglected, show that the acceleration of D when the angle DOP is equal to θ is

$$-a\omega^2 \cos\theta - \frac{a^2\omega^2}{b}\cos 2\theta.$$

For what position of OP is the acceleration of D numerically greatest?

4. Define a moment of inertia and show that the sum of the moments of inertia of a plane lamina about any two rectangular axes in its plane is equal to the moment of inertia about an axis through the point of intersection of these two at right angles to the plane.

Find the moment of inertia of a uniform right circular cylinder about a diameter of the circle which forms its base.

5. Investigate the equations of motion of the compound pendulum, oscillating in a vertical plane, and integrate the equation when the extreme angle α of deviation from the vertical is so small that $\sin\alpha$ may be replaced by α.

If the pendulum be a uniform rod oscillating about one end, and if at the instant when it is vertical the upper end is set free and the lower end fixed but so that the rod is free to move about it, investigate the subsequent motion; state the angular velocity when the rod is next in a vertical position.

6. Define the centroid of a system of masses, and state and prove the theorem of Pappus that connects the volume of a surface of revolution with the centroid of the area which generates the volume.

By means of Pappus' theorem or otherwise obtain the coordinates of the centroid of a plane lamina of uniform density having the shape of a quadrant of an ellipse.

7. A string whose weight may be neglected is suspended from two fixed points and from given points in the string are suspended a series of equal weights; find the inclination to the horizontal of successive portions of the string. Deduce from your result the equation of the common catenary.

If the horizontal projections of successive portions of the string are all of the same length, show that the points of the string to which the weights are attached lie on a parabola.

8. A string rests in limiting equilibrium on a rough circular cylinder; find the equation connecting the pull at each end of the string and the angle between the directions of the string at the ends.

An inextensible string hanging over a rough horizontal cylinder carries equal weights at its ends; by how much must one of the weights be increased till it begins to descend, the weight of the string being neglected?

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9. Explain briefly the terms bulk modulus, rigidity modulus, Young's modulus, modulus of simple longitudinal strain, Poisson's ratio, and state how the last three depend on the first two.

Investigate the strains in a tube bounded by two coaxial right circular cylinders, subjected to uniform pressures p_0, p_1 respectively over the inner and outer surfaces, limiting consideration to parts of the tube at a considerable distance from its ends.

10. A solid body is floating partially immersed in water and receives a small displacement so that the volume of water displaced is unaltered; find the couple tending to restore the body to its position of equilibrium.
If the floating body is a rectangular parallelopiped of uniform density with one of its edges vertical, find the relation between its length, breadth and height so that the equilibrium may be stable.

11. Define the centre of pressure of a plane area and find it for a trapezium with one of the parallel sides in the surface of the liquid.
If the plane of the trapezium is vertical and its parallel sides horizontal, to what depth must the upper side be sunk so that the centre of pressure shall be equidistant from the upper and lower sides?

12. Prove, from considerations of energy or otherwise, that in the case of the steady motion of liquids under external forces which have a potential

$$\frac{p}{\rho}+\tfrac{1}{2}q^2-V=C,$$

where C is constant for the same stream line, and p, ρ, q, V have their usual meanings.
A hemispherical basin having a plug of very small diameter fitted at the bottom is filled with water. The plug is withdrawn: find the rate at which the surface of the water in the basin is descending when the depth of the water is x. Taking the area of the vena contracta at the orifice as k and the radius of the basin as a, show that the time the basin takes to empty itself is

$$\frac{7\pi a^2}{15k}\sqrt{\left(\frac{2a}{g}\right)}.$$

13. What property besides fulfilment of Boyle's law is possessed by a perfect gas? Give a general account of experiments which have been made to test whether ordinary gases possess this property. Explain how the result of the test is affected by inexact fulfilment of Boyle's law, and how this effect may be allowed for from data obtained in other experiments.

14. Find in ergs the work done by a gramme of air in expanding at constant temperature 100° C. from pressure 2 atmospheres to pressure 1 atmosphere, and the work done in a cycle consisting of the expansion just specified, a compression at temperature 0° C., and two adiabatic changes uniting the extremities of the two isothermal changes. What are the changes of pressure and volume in the isothermal compression?

15. A metallic wire is under tensile stress S. Prove that

$$\theta\left(\frac{\partial S}{\partial\theta}\right)_e=-\lambda$$

where $(\partial S/\partial\theta)_e$ denotes variation of S with absolute temperature θ, under constant elongation strain e, and λe is the dynamical value of the heat taken in by one cubic centimetre of the substance in being strained isothermally by an amount e.

Show that if the wire is heated when elongated under constant stress,

$$\left(\frac{\partial S}{\partial \theta}\right)_e < 0,$$

and hence that in this case λ is positive.

Illustrate the physical theory here obtained by the results of experiments on different substances.

SECOND PAPER—See p. 545.

CHEMISTRY—See p. 620.

FINAL EXAMINATION.

ENGINEERING.

FIRST PAPER—THREE HOURS.

1. Describe and account for the differences in the physical constitution and properties of wrought iron and mild steel, stating some of the principal bearings of these differences on the suitabilities of the materials for various purposes.

2. Explain the meanings you attach to each of the terms: "Grey pig iron," "Bessemer pig," "Cogging mill," "Producer gas," and "Blister steel."

3. Explain the reasons for rounding out re-entrant angles in wrought iron forgings, in iron castings, and in machined pieces of mild steel.

4. Give a short account of the mode of shrinkage of timber, and describe two processes for the preservation of timber from decay.

5. Give the approximate composition of the chief alloys of copper, and describe the series of copper-tin alloys, with respect to their chief properties, from an engineering point of view.

6. Give a short account of the sources of aluminium, and the processes by which it is extracted. For what purposes is aluminium chiefly used?

7. For a double-acting, single-cylinder engine, developing 50 horse power at 120 revs. per min., with a fluctuation of energy of 10 per cent. of the work done per revolution, the fluctuation of angular velocity of the crank-shaft is required to be maintained within 3 per cent. of the mean angular velocity. Find suitable dimensions for the fly-wheel, taking the rim as being rectangular in section, and neglecting the mass of the arms, etc.

8. Define the terms: Mass, Work, Energy, Power, Young's Modulus, and Viscosity, and state the units in which each may be expressed.

9. Describe the process of manufacture of Portland cement, and give some account of the tests usually applied to ascertain the qualities of a given sample.

SECOND PAPER (Alternative to Third Paper).

Two Hours and a Half.

1. Describe the differences in construction between a Y theodolite and a transit theodolite, and explain how the differences affect the adjustments of the instrument.

2. A surface is generated by the revolution of a line 8 inches long about an axis, with which it makes an angle of 45°, and to which it is attached at its middle point by a connecting piece 1 inch long at right angles to both the generating lines and the axis. Obtain the equation of the profile of the surface, and find the volume of the solid enclosed by the surface and plane ends.

3. Classify the obstructions that are usually met with in extensive chain surveys, and show how you would overcome these, giving, in all, say four examples.

4. Give an account of the method of conducting a triangulation survey, dealing specially with methods of measuring the base length and with the reading of angles, explaining the precautions to be taken to get the angles measured very exactly, and for the elimination of errors in the horizontal limb of the instrument.

5. Explain how a circular curve of 30 chains radius would be set out between two straight tangents intersecting in an inaccessible point at an angle of 125° 30′. Make the necessary calculation for setting out the curve, assuming any required data not given. The line pegs are not required to act as distance pegs.

6. The lantern of a lighthouse stands 60 feet above the sea level. At what distance will it become visible to an observer standing 36 feet above the water level on board a ship approaching the coast, assuming a mean value for atmospheric refraction? Prove the formula for the effect of curvature of the earth.

7. Enter up in the form of a level book the notes given in the accompanying sheet, cast up the book, and ascertain whether arithmetical work checks.

Under what circumstances in levelling operations would you consider it necessary to make allowance for curvature of the earth and for refraction?

8. Explain how you would proceed to determine the "Half Breadth" for a railway cutting in ground having an irregular sidelong slope.

9. Give an account of the origin and development of windings of rivers in alluvial plains, and account for the variations of velocity found at various points in the cross section of a river.

THIRD PAPER (Alternative to Second Paper).

Two Hours and a Half.

1. Explain the meaning you attach to each of the following terms: Entropy, Latent Heat of Steam, Total Heat of Steam, Internal Energy, Carnot Principle.

How many lbs. of water per lb. of coal could be raised from 60° F. to 338° F. and evaporated at this latter temperature, if the calorific value of the coal was 12500, and 70 per cent. of its available energy was utilized in the process?

2. State and prove the "adiabatic equation" for steam.

If steam at a pressure of 120 lbs. per square inch absolute, and containing 10 per cent. of moisture, be expanded down, adiabatically, to a pressure of 60 lbs. per square inch, absolute, what will be the percentage of moisture in the steam at the end of the expansion?

[The temperature of saturated steam at 120 lbs. per square inch is 341° F. and that of steam at 60 lbs. per square inch is 292½° F.]

3. Discuss the thermodynamic and mechanical advantages of double and triple compound over single cylinder engines; and also the effect on efficiency of:

(*a*) Continuous drainage of the steam pipes and valve chest, (*b*) superheating, (*c*) compression.

4. State "Willan's Law," and illustrate it, by aid of sketches, with respect both to indicated and brake horse-power.

If, for a given engine of 150 brake horse-power, the consumption of steam was 3000 lbs. per hour at full load and 1000 lbs. per hour at quarter load, what would you expect the consumption to be at half load and also at three-quarters load?

5. Describe, with the aid of sketches, a steam indicator suitable for a quick revolution engine—making, say, 450 revs. per min.—and point out in what respects, and why, it differs from one suitable only for slow revolution engines—making, say, 100 revs. per min.

State, briefly, the principal sources of error in the determination of the indicated horse-power of an engine.

6. Explain the advantages of a "Porter" governor over a simple "Watt" governor, and determine the speed of rotation of the governor for which data are given on the accompanying sheet.

7. Explain, with the aid of sketches, how you would proceed to construct a crank-effort diagram for a single-cylinder, double-acting, horizontal steam engine, taking into account the inertia of the reciprocating parts.

8. Describe, with the aid of sketches, the construction of the cylinder and valves of a gas engine; explain the cycle of operations and sketch the probable form, roughly to scale, of the indicator diagram.

Contrast the function of the governor with that of the flywheel, and explain the action of each.

FOURTH PAPER—Three Hours.

(*Only* EIGHT *questions may be attempted.*)

1. With respect to the tensile tests of materials, define the expressions:—Young's Modulus, Limit of Elasticity, Yield Point, Maximum Stress, Local Extension. Sketch, approximately to scale, the stress-strain diagrams for two bars of mild steel, 1 inch in diameter, the lengths being 10 inches and 5 inches respectively.

2. A cylindrical boiler shell, assumed to be of indefinite length, is 7 ft. 6 ins. in diameter and $\frac{3}{4}$ in. in thickness. Determine the nature and intensity of the stress across a spiral section when the shell is subjected to an internal pressure (gauge) of 150 lbs. per sq. in., the inclination of the spiral to a transverse section being 60°.

3. Assuming any formulas for cantilevers, investigate an expression for the deflection of a beam supported at the ends and carrying a uniformly distributed load.

A timber beam, 14 ins. sq., has a clear span of 14 ft., and carries a uniformly distributed load of 600 lbs. per foot run. Determine the maximum intensity of stress and the maximum deflection for the beam, taking $E = 1,800,000$ lbs. per sq. in.

4. Investigate an expression for the intensity of shear stress at any point of a transverse section of a beam, and apply it to determine the curve of shear stress for a cross section of the above beam, distant 2 ft. from one of the supports.

5. In respect to torsion of cylindrical shafts, prove the formula $\frac{T}{I} = \frac{f}{R}$, and state the assumptions on which it is based.

A spiral spring consists of 20 turns of $\frac{1}{4}$-inch steel wire and has a mean diameter of $3\frac{1}{2}$ inches. Determine the maximum intensity of stress in the wire and the elongation of the spring produced by a load of 15 lbs. suspended from it.

6. Find the stresses in the various parts of the loaded crane frame shown on the accompanying sheet, taking account of the pull in the chain from the drum to the jib head pulley.

7. State and explain Gordon's, Hodgkinson's, and Euler's formulae for the strength of columns, and discuss the applicability of each.

8. State and prove Bernouilli's Theorem.

Sketch and describe a Venturi flow gauge (water meter), and, assuming any data you require for the purpose, show how the flow can be calculated.

9. Describe, with the aid of sketches, a "Pelton Wheel," and determine the peripheral velocity of the buckets for maximum efficiency in terms of the velocity of the impinging jet.

Water is delivered from a reservoir to a pelton wheel 4 feet in diameter through a 4-inch pipe, 60 feet in length, terminating in a $\frac{3}{4}$-inch nozzle 50 feet below S.W.L. Determine the velocity of the issuing jet, the maximum power of the wheel, and the best number of revolutions per minute.

10. Explain the chief points of difference between the turbines usually called "impulse" and "reaction" respectively, and state the circumstances under which each is particularly suitable.

If V is the peripheral velocity of the wheel at the inlet surface, v_w the velocity of whirl of the water, and H the available head, prove that for maximum efficiency

$$V \,.\, v_w = g \,.\, H.$$

ENGINEERING DRAWING AND DESIGN.

FIRST PAPER—Three Hours.

(*Only* SEVEN *questions may be attempted.*)

1. In the figure shown on the accompanying sheet, *AB* and *CD* are two cranks rotating uniformly about the fixed axes *A* and *C* respectively.

A cord is fixed at one end to the point *G*, passes over the loose pulleys *D*, *F* and *B*, and is attached to a slider *S*, which carries a pen and is constrained to move in a vertical line in front of a sheet of paper which moves horizontally at a uniform rate of 4″ for each revolution of the crank *AB*.

Draw the curve traced by the pen upon the sheet of paper for one revolution of *CD*, *AB* making two complete revolutions in the same time.

[Neglect the obliquities of the cord introduced by the rotating cranks.]

2. The vertical and horizontal traces of a plane make angles of 30° and 45° respectively with the ground line. Draw the projections of a line *AB*, 4″ in length, passing through a point *P*, lying in the plane and 1″ from each of the planes of projection ; *A* being in the vertical trace and *B* in horizontal trace of the plane.

3. Show, by the aid of sketches, how you would solve the following problems :

(*a*) Determine the angle between a given straight line and a given oblique plane.

(*b*) Draw the plan and elevation of a tetrahedron with one edge in the horizontal plane and a face containing that edge inclined at 30°.

(*c*) Draw the projections of an equilateral triangle of 2″ side with its angular points 1″, 1¼″, and 2″ respectively, above the horizontal plane.

4. Through the given point *P* shown in the figure draw the projections of a straight line touching the given sphere and inclined to the horizontal plane at an angle of 60°.

5. Draw the curve of intersection of the ring and cylinder shown on the accompanying sheet.

6. Draw the shadow cast by the cylinder on the ring, the direction of the rays of light being as shown.

7. Make an isometric projection of the object shown on the figure. The isometric scale is to be 3″ to 1 ft.

8. Draw a diagram of stresses for the loaded framed structure shown on the accompanying sheet.

SECOND PAPER—Three Hours and a Half.

1. Discuss briefly the effect of varying and repeated stresses upon the ultimate strength of materials.

Explain the meanings of the terms :—Statical Strength, Primitive Strength, and Vibration Strength, and state their relative values, approximately, for mild steel.

2. A single-cylinder, double-acting steam engine is to develop 200 I.H.P. at a piston speed of 800 ft. per min. with an initial pressure of 145 lbs. per sq. in. absolute, the cut-off being at ·75 of the stroke, and the length of stroke 1·5 times the cylinder diameter. Assuming a back pressure of 18 lbs. per sq. in. absolute, a diagram factor of ·8, and a clearance volume of 8% of the volume swept through by the piston, determine, from first principles, length of stroke, diameter of cylinder, and revolutions per minute.

3. Assuming the travel of the valve of the engine in question 2 to be 4 ins., release at ·92 of stroke, and the angle of lead 10° determine, by the Harmonic-diagram method, the outside and inside laps of the valve, the points of compression, and the angle of advance of the eccentric.

4. Design and make detailed drawings of one of the following:

(*a*) A cylinder suitable for the engine of question 2, with piston, piston-rod, stuffing boxes, and slide-valve, complete.

(*b*) A steel plate-web girder for a clear span of 30 ft. and a uniformly distributed load of 2½ tons per ft. run.

(*c*) A cast-iron spur wheel suitable for a mill engine of 400 H.P. at 100 rev. per min., having a moderately uniform drive; the diameter of the wheel being 7 ft., and that of the eye 8 ins.

ENGINEERING LABORATORY.

MECHANICAL AND ELECTRICAL—Three Hours.

(Four *questions to be answered,* one *of which must be number* 1, 2, *or* 3.)

1. Describe in detail how you would carry out a boiler trial to determine the thermal efficiency of the boiler and the distribution of the losses.

2. Describe how you would make a complete test of the gas engine, including the measurements of gas consumed, B.H.P., I.H.P., heat lost in the water jacket and heat lost in the exhaust.

3. Two similar 100 K.W. dynamos are available; describe how you could make a complete test of both machines simultaneously. How do the conditions under which the test is made differ from the normal working conditions for the dynamos?

4. Describe how you would set about finding the moment of inertia of a flywheel which is mounted on a shaft in bearings.

5. Describe the Alden brake and its method of working.

6. Sketch and describe any form of Extensometer for measuring the extension of a bar while under test in a testing machine.

7. Describe how you would find the calorific value of coal gas and discuss the sources of error in the method you employ.

8. Describe how you would construct and calibrate an apparatus for gauging the quantity of water flowing in a stream.

9. How would you obtain the magnetic characteristic and the short-circuit characteristic of an alternator?

10. Describe any form of wattmeter suitable for use with alternating currents, and sketch the connections for using a single wattmeter and a special switch to measure the power in an unequally loaded three-phase circuit.

11. Sketch the connections between the power mains and a shunt motor having in addition to the starting switch, a field resistance for varying the speed.

12. Describe any practical method of obtaining a B-H curve for a specimen of mild steel.

ELECTRICAL ENGINEERING—Three Hours.

(Six *questions to be answered.*)

1. The terminals of a condenser of capacity 5 microfarads are connected to two terminals maintained at a difference of potential of 2000 volts. What energy is taken from the source of supply and what energy can be got out of the condenser again? Account for any loss which may take place.

2. The magnetic flux per pole in an alternator is 6 megalines. How many ampere turns per pole are required to produce this flux if the magnetic circuit has the following dimensions: (1) In the armature $l=15$ cm., $A=900$ cm^2., (2) In the air gap $l=1$ cm., $A=1200$ cm^2., (3) In the field pole $l=26$ cm., $A=1000$ cm^2., (4) In the yoke $l=20$ cm., $A=2250$ cm^2.? The yoke is of cast iron and the armature and pole pieces of sheet iron, and B.-H. curves for these materials are given.

3. A 500 H.P. motor having an efficiency of 95% is fed from a generator 4 miles distant through two cables. The E.M.F. at the generator is 5000 volts. Find the section of the cables which would give 4500 volts at the motor terminals when fully loaded. Specific resistance of copper $=1{\cdot}8\times10^{-6}$.

What fraction of the power supplied is lost in the cables?

4. A six pole dynamo when running at normal speed has an E.M.F. of 120 volts. The magnetic flux per pole is 4·12 megalines. The armature is multiple wound having one turn in each coil and there are 30 commutator segments per pole. Find the normal speed of the armature.

5. A tramway motor has a resistance of 1·5 ohms and the velocity ratio of the gear is 4·78. Find the torque which the motor exerts when taking 30 amperes at 500 volts if the speed of the car is 15 miles per hour and the car wheels 33 inches in diameter.

6. An arc lamp requiring 10 amperes at 45 volts is to be supplied from alternating current mains having a difference of potential of 100 volts and a frequency 50 Find the self induction of the choking coil required to reduce the pressure to the required amount.

Supposing the choking coil had a resistance of one ohm, what effect would it have on the result?

7. An electromagnet is excited from a 200 volt circuit and takes 10 amperes. The circuit is broken and the magnet is simultaneously short

circuited through a non-inductive resistance equal to the resistance of the magnet. The current in the magnet then falls to 5 amperes in 3 seconds. Find the self induction and the time constant of the magnet.

8. Describe clearly how it is that a self induction produces a lagging current while a capacity produces a leading current in an alternating current circuit, and find the expressions for the reactances due to self induction and capacity respectively.

9. A three phase transmission line has a resistance of 8 ohms and a reactance of 4 ohms per wire. The generator is star connected the resistance of each phase winding being 0·7 ohm and the synchronous reactance 20 ohms. A current of 30 amperes at 5000 volts is being taken from the receiving end of the line the current being in phase with the E.M.F. Find the E.M.F. at the generator end of the line and the phase relationship between the current and E.M.F.; also find the E.M.F. induced in each phase winding.

NAVAL ARCHITECTURE.

STABILITY AND ROLLING—Three Hours.

1. Define the terms metacentre, centre of buoyancy, and surface of flotation.

2. Deduce the formulae upon which Barnes' method of polar integration for a ship-shaped form is based. Describe fully the practical method of applying the formula for statical stability.

3. Describe a method of obtaining the cross-curves of stability of a ship by the integrator.
How would you obtain the curve of GZ's from these for a given displacement and position of $C'G$?

4. What is an isocline? How would you obtain one from cross-curves of stability? Describe a method of standardising the isocline.

5. Give specimens of curves of stability for any three distinct types of ships, naming in each case the type, conditions of lading, metacentric heights, range, and maximum righting arm.
Show how to find from the curve of stability the position of the metacentre in the ship at the angle of vanishing stability.

6. If the height Y of the metacentre above the keel be set off in terms of V the volume of displacement, show that the centre of curvature of the curve of flotation is at the same height above the keel as is the intersection of the tangent to the curve of metacentres with the axis of Y. Show that when the tangent to the locus of CB's is parallel to the tangent to the locus of M's, that $R=\rho$; assuming that $\rho=\frac{dI}{dV}$, show that $\rho=R+V\frac{dR}{dV}$.

7. Show that the tangent to an isocline always passes through the centre of gravity of the waterline area of the plane which cuts off the volume of displacement of which the point on the isocline is the centre of buoyancy.
What is the direction of the tangents at the ends of an isocline?

8. Having obtained the value of CZ in a ship-shaped form for all displacements at a series of angles from 0° to 90°, show how to obtain the values from 90° to 360°.

9. Deduce the equation to unresisted rolling in still water, and give its solution obtaining the period of oscillation.

10. State the form of the equation to resisted rolling obtained as the result of experiments upon ships and models, and explain how the coefficients in it are obtained.

11. Describe Russo's Navipendulum, explaining the principles upon which it is based, and state what it obtains.

12. What methods are adopted to increase resistance to rolling? Explain why free water in the bottom of a ship may be associated with a list in still water, but may not prevent a ship from oscillating in waves equally on each side of the vertical.

RESISTANCE AND WAVES—Three Hours.

1. Assuming the formula for constancy of head, prove Froude's Law of Comparison.

2. If the curve of wave-making resistance for a form of unit dimensions be $r=av^n$, find the equation to the curve of resistance in terms of displacement for constant speed.

3. How can the resistance of a ship be determined from that of a model? State fully the experiments which have to be undertaken (not only on the model) in order to be able to make even an approximate estimate.

4 A model 20 feet long has a displacement of ·34 of a ton, what is its resistance at $1013\frac{1}{3}$ feet per min., supposing that it represents a Torpedo Boat Destroyer of 443 tons of exactly the same proportionate dimensions, the E.H.P. of which at the corresponding speed is 6000? The frictional resistance of the model may be taken at 30 lbs., and that of a square foot of wetted surface of the ship at 5 lbs. at the corresponding speed.

5. State what results are obtained in a measured mile trial.

6. Obtain an expression for the efficiency of (1) a jet propeller; (2) a paddle wheel.

7. Define Screw efficiency and Hull efficiency.

Show that in a screw running at revolutions R and R_1, at speeds of advance of V and V_1 respectively, if $R=R_1\frac{V}{V_1}$ the efficiencies will be the same.

8. Explain how speed of wake can be determined by experiment.

Describe the method of recording experimental results so that they may be used for fixing the dimensions of propellers.

9. State propulsive efficiencies, surface ratios, and machinery efficiencies for different types of ships, in terms of dimensions and prismatic coefficients.

10. State the trochoidal theory of the mechanics of the motion of a wave.

11. State the propositions:

(1) Uniformity of pressure at free surface.
(2) Continuity of flow.
(3) $D\,r=$ const.

Prove the second, and show that the same condition is necessary for the second as for the third, viz., $nPQ=$ const.

12. Describe the method of drawing a trochoidal wave, and find an expression for the total energy of a wave length of infinite depth.

STRENGTH—THREE HOURS.

1. In the formula $p=Ee$ explain what the symbols represent.

2. Describe the method of obtaining curves of weight and buoyancy in a ship, and prove that the integral of the curve of loads gives the shearing force, and the integral of the shearing force gives the bending moment.

3. In the formula $\frac{p}{y}=\frac{M}{I}=\frac{E}{R}$ state the assumptions upon which it is based. Show that the shearing stress at a point in a section can be obtained from the formula $q=\frac{FA\bar{y}}{Iz}$.

4. Find the stress upon the bottom of a vessel of rectangular section 30 feet wide, 20 feet deep, plated on deck with plates of $\frac{1}{2}$ inch thick, and on sides and bottom $\frac{1}{2}$ inch thick under a bending moment of 20,000 ft. tons. Suppose the shearing force over the section to be 300 tons, find the maximum shearing stress.

5. Explain how the modulus of elasticity of a ship as a whole can be obtained. Why does this vary from that of the test pieces of the material of which the ship is generally constructed.

6. What ratio of bending moment to $\Delta \times L$ would you expect to find in

(1) A torpedo boat destroyer?
(2) A 5000 ton cargo boat?
(3) A 600 feet Atlantic liner?

What stresses on the bottom and deck would you consider the maximum permissible under standard conditions in (2) and (3)?

7. Explain the construction of a trochoidal wave, and state how you would take account of the pressure due to the orbital motion of the particles. What is the effect of this upon the pressures in the crest and hollow compared with that of the statical pressure due to the depth below the surface?

8. What is the effect upon the bending moment of a ship of the passage of a series of waves past a vessel steaming head to sea? Show that in a vessel, the moments of inertia of whose ends about the transverse axis through the CG are equal, the bending moment amidships will not be increased by pitching provided no water comes on board.

9. Show how to obtain the stress upon a vessel inclined to the upright. Deduce the equation to the neutral axis.

10. A vessel at launching has a known lifting moment acting upon her, and a known buoyancy. Explain how you would find the pressure on the forward poppet. Suppose the weight curve to be known, how would you find the bending moment?

11. What are the ultimate and elastic limit tensile stresses of mild steel? What is the value of the ultimate shearing stress of steel rivets in steel plates? Find the efficiency of a treble riveted joint in a $\frac{3}{4}$ inch plate 50 inches wide, having three rows of $\frac{3}{4}$ inch rivets spaced four diameters apart.

12. Find the diameter of rudderhead for a rudder whose area is 40 square feet and whose form is a parabola with 12 feet deep and 5 feet wide. Assume that the speed of the ship is 20 kts., and the permissible tensile stress 10 tons per square inch, and the angle of the rudder 30 degrees.

SHIP CALCULATIONS—THREE HOURS.

1. Give Tcheblycheff's rule for three ordinates, and show how it can be applied to replace the vertical integration in a displacement sheet.

2. Prove that $BM = \frac{I}{V}$, and find the longitudinal moment of inertia for a ship the ordinates of whose L.W.L. are as follows: 0, 5·8′, 8·7′, 9·8′, 10′, 9·4′, 7·5′, 4·4′, 0—spaced 15 feet apart.

3. Describe how to make a cargo capacity curve, and give a sketch of the curve of locus of G's and M's in terms of the density of cargo.

4. Describe generally the system of standardising the results of ships' calculations, and explain how the metacentres are recorded by this system. Sketch the form of the standardised curves of metacentres for a racing sailing yacht, a steam yacht, a battleship, and a cargo steamer.

5. If $\frac{1}{n}$th of the length of a rectangular vessel be flooded, find the equation to the curve of change of draft at the end of the ship that the flooded compartment is in. Explain how the proportion of the length of a ship which can safely be flooded is found.

6. Describe the statutory load-line tables, giving the principles upon which they are based, and how modifications are applied to meet variations in sheer, length of deck erections, etc.

7. Describe the different types of merchant steamers, showing how the evolution from the flush, one-decked steamer to the various types has taken place.

8. How would you find the effect upon the initial stability of a vessel due to a small quantity of loose water in her? In what form is the metacentre below the centre of buoyancy?

9. A vessel whose gross registered tonnage is 10,000 has the following volumes :

Machinery openings and deck erections, - -	13,000 c.ft.
Officers and crew spaces, - - - - -	20,000 c.ft.
Machinery space below tonnage deck, - -	196,000 c.ft.

Find the net registered tonnage.

10. Describe the construction of curves, showing the lifting and tipping moments at launching.

A ship with rectangular section slides down ways prepared at an angle α to the horizontal. Find the form of the curve of moment of buoyancy about the fore-end of ways.

11. Find the dimensions of a vessel to carry 5000 tons of cargo, and coal to steam 3000 knots at 15 knots per hour; draft 26 feet; admiralty constant 250; hull coefficient ·5; ;machinery coefficient ·16 tons per I.H.P. ; coal 1·5 lbs. per I.H.P. per hour.

12. What would be the light GM of a vessel like the *Campania*, assuming that KM is the same as in a block of the same dimensions, viz., $L = 600'$, $B = 65$, $D = 42$ feet?

MARINE ENGINEERING—Three Hours.

(*Candidates may attempt* SIX *questions out of each part.*)

PART I.—Two Hours.

1. Sketch neatly a return tube cylindrical boiler, and a through tube cylindrical boiler, naming the parts. In what classes of ships are the latter fitted ?

2. Give methods of staying and stiffening combustion chambers, and state the spacing of stays; what controls the size and dimensions of combustion chambers? In a double-ended boiler give an arrangement of combustion chamber suitable for working with closed ashpit forced draught.

3. Discuss briefly the merits of fire-tube and water-tube boilers. Sketch a steam drum, mud box, reducing valve, and automatic feed regulator on a Belleville boiler; show by an outline sketch their position on the boiler.

4. Make a careful sketch of any one of the following types of boilers, and compare their weight in lbs. per I.H.P. with that of a single-ended Scotch boiler : Marine locomotive, Yarrow, Normand, and Thorneycroft. In what class of ships have these boilers mostly been fitted ?

5. Describe the different kinds of steam coal, and state where they are found in Britain. How many cubic feet per ton is allowed for the stowage of Welsh coal? What is an average figure for bunker coal stowage?

Enumerate the causes of loss of heat in a boiler.

6. A sample of coal contains 80% C, 6% H, 1% S, 10% O, 3% ash, find how much air per lb. coal is required to completely burn it, and what percentage of the total heat is available for raising steam.

7. Explain how an indicator diagram is taken in a double-acting engine, and how the I.H.P. of the engine can be obtained therefrom.

How can the cards of a three-cylinder engine be combined in one diagram, and for what purpose is this done?

8. Show how a curve of piston velocities can be got, and how the acceleration of the piston can be obtained from it; prove the latter. Knowing the acceleration of the piston-rod, how can the indicator diagram be corrected?

PART II.

(9) Sketch carefully a cross section of the cylinder of a high power double-acting engine, showing the liner, slide valve, cover and piston, etc. State of what material each part is usually made.

(10) Show methods of joining the piston-rod to the piston; sketch in detail an arrangement of piston packing; deduce a relation between the diameters of piston-rod and cylinder, and maximum pressure in the cylinder, so that the piston-rod will be sufficiently stiff.

(11) Sketch shaft couplings (1) as usually made, (2) as made in the Navy, (3) a flexible coupling. Discuss the merits of these three methods. When is it advisable to have flexible shaft couplings? How is the number and size of coupling bolts regulated?

(12) Sketch a stern tube, showing liners and glands, etc., and state what each is made of; show in a separate sketch the tail-shaft with propeller connections.

(13) Define pitch rates, slip per cent., and give limiting figures for hem; with what values of these is efficiency associated? Give slip % also for a paddle steamer.

Give coefficients for determining propeller surface in terms of I.H.P. for various classes of ships.

(14) How is a propeller drawing made, the pitch increasing from root to tip?

(15) Define lap, lead, and travel of a valve, throw, and angle of advance of the eccentric. If you are given the throw of the eccentric sheave, position of crank at cut off, and the amount of lead of the valve, find the proper lap of the valve, and the position of the sheave relative to centre line of crank.

(16) Obtain the sizes of *HP*, *MP*, and *LP* cylinders for a 6000 I.H.P. twin screw steamer, the engines to run at 200 revolutions per minute, boiler pressure to be 160 lbs., and the speed of the ship to be 20 knots; select further data suitable for the type of engines, and determine the pitch and diameter of a suitable propeller.

ELECTRICITY (PURE AND APPLIED).

1. Find the magnetic potential and field-intensity at any point due to a magnetic needle of very short length, and point out how the inverse square law has been proved by Gauss.

Assuming a given bar magnet to have two definite "poles," show how to determine experimentally the distance between them.

2. Prove that the magnetic field-intensity at any point within a long straight solenoid and at a distance from the ends is equal to $4\pi C$, where C is the current flowing round the solenoid per unit of its length.

A solenoid is 120 cms. long and has 3000 turns of wire wound in 4 layers. The internal and external radii of the solenoid are 4·2 and 5·4 cms. respectively. Calculate its self-inductance. How would you verify your result by experiment?

3. Describe and discuss four distinct methods for comparing the electromotive forces of two cells.

Describe also in detail a method by which you could determine absolutely the electro-motive force of a Clark cell.

4. What do you understand by a "ballistic" galvanometer? For what purpose is such an instrument used? Establish the formula for use with the ballistic galvanometer, and describe one method by which you could calibrate it.

5. What electro-magnetic instruments are available for use in alternating circuits? Describe the electro-dynamometer and the wattmeter of Siemens, explaining how they are to be used, and deducing in each case the appropriate formula.

A Siemens wattmeter is joined up in the circuit of a 100-volt continuous current dynamo. If the wattmeter shows a reading of 200 degrees, and the dynamo is supplying 30 amperes, find the constant of the instrument.

6. A simple circuit contains an alternating machine which gives an E.M.F. varying as a simple harmonic function of the time, and is completed through a coil having inductance and resistance. Find the current through this coil at any time. State generally the effect of placing a condenser in series with the coil. Say what is meant by electrical "resonance," and explain in what circumstances it may occur.

If the frequency of the machine be 75 per second, the maximum E.M.F. 90 volts, the resistance in circuit 6 ohms, and the self-inductance 2 henrys, find the mean square of the current flowing when there is no condenser. Find also the impedance of the inductive coil, taking its resistance as 5 ohms.

C.—IN AGRICULTURE.

FIRST EXAMINATION.

MATHEMATICS—See pp. 539—543.

NATURAL PHILOSOPHY—See pp. 543—548.

CHEMISTRY—See p. 620.

BOTANY—See p. 619.

ZOOLOGY—See p. 619.

FINAL EXAMINATION.

AGRICULTURE AND RURAL ECONOMY.

THREE HOURS.

(ALL *the questions to be answered.*)

1. Name three Geological Formations on which good soils, and three on which poor soils are usually found, and describe the agricultural characters of the soils of the Coal Measures. In what parts of Britain are they found?

2. Enumerate conditions that affect the composition of Farmyard Manure, and explain how they do so.

3. Describe the process of hay-making as practised in Scotland. Explain the objects aimed at in the operations, and mention any hay-making implements or machines known to you by which the work of hay-making is greatly facilitated.

4. Describe the feeding of a farm work horse for a year, and give a detailed calculation of the cost.

5. Name the three chief breeds of British Feeding Cattle. State what are their common points of excellence, and mention their distinctive features and characteristics.

6. Name and compare the two leading breeds of Scotch Mountain Sheep. For what purposes are they dipped, and what are the chief ingredients of dips? Give the composition of a good dip, and state the quantity required to dip 100 hill ewes in winter. How would you vary it in summer, and why?

VETERINARY HYGIENE—TWO HOURS.

(ALL *the questions to be attempted.*)

1. Name and give the position of the bones entering into the formation of "the pelvis of the mare," and state what viscera are contained in the cavity and give their relative positions.

2. Describe the stomachs of the ox. Compare them with the stomach of the horse.

3. What is colic? Describe a case, and according to your description of case, state what treatment you would adopt for its relief.

4. How would you advise as to the construction of a stable, say for from 15 to 20 horses?

5. What are the advantages and disadvantages of peat moss as a bedding?

6. How would you distinguish between venous and arterial haemorrhage, and what first-aid measures would you adopt in a case of profuse bleeding from the palate?

AGRICULTURAL BOTANY.

1. Give an account of Enzymes, and explain their importance in the physiology of the plant.

2. Discuss the weeds of arable land, and of pasture: how are they spread, and how may they be checked? Name ten examples of native weeds, with notes on their biology, and name their natural orders.

3. Describe in detail the mature ear, and the grain of barley. Discuss the characters of a good malting barley.

4. Give a full account of Club-root, and how it may be avoided.

5. Discuss parasitism and saprophytism, with special reference to Viscum, Euphrasia, Cuscuta, Ustilago, Nectria, and Agaricus.

AGRICULTURAL ENTOMOLOGY.

1. What are the effects on agriculture of: Ladybird (*Coccinella*), Weevils (*Curculionidae*), Ground Beetles (*Carabidae*), Ghost Swift (*Hepialus*), Mangold-wurzel Fly (*Chortophila*), Ichneumon Flies (*Ichneumonidae*), and how would you deal with any two of them?

2. Give an account of the life history (metamorphosis) of the Crane Fly.

3. By what characters would you distinguish the Orders Coleoptera, Hymenoptera, Lepidoptera, Hemiptera?

4. Name and state what you know of the specimens put before you.

IV.—FOR DIPLOMA IN EDUCATION.

SCHOOL MANAGEMENT—THREE HOURS.

1. State exactly the regulations laid down by the Scotch Education Department as to (*a*) registration of daily attendance, (*b*) the circumstances in which an attendance must be cancelled, and (*c*) the conditions under which two consecutive hours may be reckoned as an attendance and a half.

2. State in detail, with examples, the method you would adopt to train your pupils to express their answers (under oral examination) "when necessary in complete sentences or in a consecution of sentences."

3. Draw up a Scheme of Work for the Lowest Class in the Senior Division of a Large Elementary School.

4. Explain and exemplify the method whereby you would introduce pupils to (*a*) Simple Subtraction, *or* (*b*) Division by Factors.

5. "The classification should be such as to afford due opportunity for promotion, and promotion in one subject, *e.g.* Reading, should not be

made dependent on proficiency in another, *e.g.* Arithmetic." State what use you would make of this freedom of classification, and give your reasons.

6. Sketch a course of correlated lessons in History and Geography for the first month's study of the Highest class of the Senior Division of an Elementary School.

7. What rules would you lay down for your guidance in the teaching of English spelling?

TEACHING IN SECONDARY SCHOOLS.

ENGLISH AND HISTORY—Three Hours.

A.

(*About an hour and a half should be devoted to this Section.*)

Discuss fully *one* of the following subjects:

(*a*) An Introduction to the Study of Chaucer—showing how you would vary your method according as your pupils knew or were ignorant of Anglo-Saxon and Middle English.

Or

(*b*) An Introduction to the Study of one of the 'Roman' Plays of Shakespeare—showing what reference you would make to (*a*) Roman History, and (*b*) the Structure of the 'Classical' as opposed to the 'Romantic' Drama.

B.

1. Take a Sonnet (or a poem of similar length) suitable for a Lower Grade Leaving Certificate Class, and show how you would use it as an example from which to evolve rules for paraphrasing.

2. Select any great Historical Movement, and show clearly how you would deal with it in a Higher Grade Leaving Certificate Class.

3. From the point of view of Historical Grammar, write notes, as for a Higher Grade Class, on *six* typical English words.

MATHEMATICS AND SCIENCE—Three Hours.

A.

(*About an hour and a half should be devoted to this Section.*)

Discuss fully *one* of the following subjects:

1. A Course in Geology as a branch of Nature Study in a Secondary School;

Or

2. The Teaching of Geometry by the Experimental Method.

B.

Show how you would treat the following as Subjects for Lessons to a Class in a Secondary School:

1. (*a*) To find the area of a circle experimentally by weighing;

Or

(*b*) A first lesson on Quadratic Equations.

2. (*a*) A first lesson on Oxygen as a Chemical Constituent of the Atmosphere;

Or

(*b*) A first lesson on the Chemical Effects of the Electric Current.

3. (*a*) "Folding" (geological);

Or

(*b*) "Weathering" and its effects.

4. (*a*) The Mariner's Compass;

Or

(*b*) Twilight.

V. FOR DEGREES IN MEDICINE AND SURGERY.

I. PRELIMINARY EXAMINATIONS.

ENGLISH—Three Hours.

Eight, *and not more than* eight, *questions are to be answered.* 1 *and* 2 *must be answered, with either* 3 *or* 4, *and either* 5 *or* 6. *The remaining* four *may be any question not already answered.*

1. Write an essay, of from two to three pages, on *one* of the following subjects:
(1) The relation of a liberal education to life.
(2) The giving of alms.
(3) Your favourite leisure reading.

2. Paraphrase:

The seas are quiet when the winds give o'er;
So calm are we when passions are no more!
For then we know how vain it was to boast
Of fleeting things so certain to be lost.
Clouds of affection from our younger eyes
Conceal that emptiness which age descries.
The soul's dark cottage, batter'd and decay'd,
Lets in new light thro' chinks that time has made;
Stronger by weakness, wiser men become,
As they draw near to their eternal home.
Leaving the old, both worlds at once they view,
That stand upon the threshold of the new.

—Waller.

3. Give some account of any *four* of the following: Cnut, John Balliol, Edward II., Laud, Monk, Claverhouse, Nelson, Wellington.

4. Give some account of any *four* of the following: Danegeld, Battle of the Standard, Magna Charta, Wat Tyler, Perkin Warbeck, the campaigns of Montrose, Treaty of Utrecht, the rising in Scotland in 1745, Waterloo.

5. Give the situation of and one or two geographical particulars about *six* of the following: Paardeberg, Bolton, Copenhagen, Dover, Fiume, Liberia, Lubeck, Massachusetts, Monaco, Quilimane, Cotopaxi, Everest.

6. Give some account of the political divisions, physical geography, and natural productions of Africa south of the Zambesi.

7. Rewrite, so as to correct or improve them, the following sentences, giving reasons for any changes you may make:

(1) I cannot of course dispute with an opponent who reads what I write with so little attention.

(2) The religious took pleasure in their cant terms, and sprinkled them as plentifully in their sermons and prayers as ever did skilful cook in time-honoured Christmas pudding.

(3) I certainly love him more than any human being, and neither time or distance have had the least effect on my (in general) changeable disposition.

(4) We fought a most furious battle yesterday, which was in its way quite as tough, and much more serious an affair than Alma.

8. Give a general analysis of the following passage, and parse the words in italics:

Ah, Chloris! *that* I now could sit
As unconcern'd *as* when
Your *infant* beauty *could* beget
No pleasure, nor no pain!
When I the dawn used to admire,
And *praised* the coming day,
I *little* thought the *growing* fire
Must take my rest away.

9. Form derivative nouns from the following: Ship, king, hard, wed, hate, shove, spin, beg, fruit, creep, shoot, foul.

10. (1) Give the plural of money, alkali, solo, potato, scarf, cow, brother, index, crocus, field-marshal, sister-in-law, Knight-Templar.

(2) Explain with examples how the possessive case is formed.

11. Tell what you know of any *one* of the following: *Coriolanus*, *Samson Agonistes*, *The Seasons*, *The Cottar's Saturday Night*, *The Corsair*, *Idylls of the King*.

12. Explain: Philistinism, referendum, back-stair influence, a Barmecide feast, natural selection, gerrymandering, Scotland Yard.

LATIN—See p. 502.

GREEK—See p. 505.

MATHEMATICS—See p. 508.

FRENCH—Three Hours.

I.

1. Translate into French:

(*a*) The actor Foote, when travelling, once stopped at an inn to dine there. When he wished to pay his bill, the host asked him if he was satisfied. "I have dined as no one in England," said Foote. "Except the Lord Mayor," retorted the innkeeper. "I except nobody." "You must except the Lord Mayor." Foote got angry. "Not even the Lord Mayor," he said. At last the host dragged him before the Mayor himself. "Mr. Foote," this venerable magistrate said to him, "it is a custom in this town always to except the Lord Mayor, and to prevent you from forgetting this a second time, I condemn you to pay a fine of a shilling." Foote paid, but on leaving, he exclaimed, "In all Christendom, I know no greater fool than this innkeeper—except the Lord Mayor," he added, and bowed respectfully to the latter.

(*b*) (1) He has nothing new to tell us.
(2) I should like you to do it.
(3) He has just heard from his friend.
(4) Come and see me; you are always welcome.
(5) He sent for his sister, and she has arrived an hour ago.

2. Translate into English:

(*a*) Le Commandant partit, convaincu qu'il lui restait deux lieues à faire. Néanmoins, il apercut bientôt à travers quelques arbres un premier groupe de maisons, puis enfin les toits du bourg ramassés autour d'un clocher, qui s'élève en cône et dont les ardoises sont arrêtées sur les angles de la charpente par des lames de fer-blanc étincelant au soleil. Cette toiture, d'un effet original, annonce les frontières de la Savoie, où elle est en usage. En cet endroit la vallée est large. Plusieurs maisons, agréablement situées dans la petite plaine ou le long du torrent, animent ce pays bien cultivé, fortifié de tous côtés par les montagnes, et sans issue apparente. A quelques pas de ce bourg, Genestas arrêta son cheval sous une avenue d'ormes, devant une troupe d'enfants, et leur demanda la maison de M. Benassis. Les enfants commencèrent par se regarder les uns les autres. Puis le plus effronté, le plus rieur de la bande, un petit gars aux yeux vifs, lui répéta selon la coutume des enfants, "La maison de M. Benassis, monsieur?"—Balzac.

(*b*) Sur les cinq heures, l'Empereur est sorti en calèche: la soirée était fort belle, nous allions fort vite et l'espace à parcourir est fort court. L'Empereur a fait ralentir dans l'intention de l'allonger. Comme nous rentrions, jetant les yeux sur le camp, dont nous n'étions séparés que par le ravin, il a demandé pourquoi on ne pouvait pas franchir cet espace qui doublerait notre promenade. On a répondu que c'était impossible, et nous continuions de rentrer, mais comme réveillé tout à coup par ce mot impossible, qu'il a si souvent dit n'être pas français, il a ordonné d'aller reconnaître le terrain; nous avons tous mis pied à terre; la calèche seule a continué vers le point difficile, nous l'avons vue franchir les obstacles et nous sommes rentrés triomphants, comme si nous venions de doubler nos possessions.—Las Cases.

II. GRAMMAR.

1. Give the French for: *a score; a thousand; thousands of men; the* 31*st of March*, 1903*; at a quarter to* 12 (*noon*)*; Henry the Second.*

2. Give the 1st person singular of the conditional and the preterite tenses of *vouloir*, *s'en aller*, *manger*, *étendre*, *joindre*, *devenir*.

3. Give the plural of *fou*, *joujou*, *chou-fleur*, *porte-plume*; the feminine of *lion*, *nègre*; the comparative of *bon*, *mauvais*, *bien*, *mal*; the adverbs from *prudent*, *respectueux*.

4. Give the French for: *Give it to me. Do not give it to him. There are six of them. They have given her nothing. Have you not seen her? Yes, sir, I saw her about an hour ago.*

5. Give two ways of translating the relative "what" and the interrogative "what?" into French; also distinguish between *dont* and *de qui*. Form six French sentences in all.

GERMAN—THREE HOURS.

(*Candidates may use either English or German script.*)

1. Translate into German:

(*a*) Nearly all the Scottish castles had by this time been taken back from the English by Bruce's soldiers. One of the boldest deeds of these brave men was the taking of Edinburgh Castle, which was done in the following manner. There was no braver man in Bruce's army than his nephew Lord Randolph. Among Randolph's soldiers was a man who, at different times, had been often in the castle. This man came to Randolph and offered to show him a way up the rock on which the castle is built, by which, he said, a certain number of men could enter it. After thinking over the man's offer, Randolph decided to try the plan. On the first dark night he took thirty bold men with him. Putting the guide in front of them, they all crept up the rock.

(*b*) (1) Do you know what she is crying for? No, I don't.

(2) When we see the swallows we ask when summer will be here.

(3) He did not tell me till yesterday that you would only leave to-morrow.

(4) In walking along the road he saw a man running towards him.

(5) He asked me to dinner, and I asked him to excuse me.

2. Translate into English:

(*a*) Das Märchen von der Frau Sorge.

Es war einmal eine Mutter, der hatte der liebe Gott einen Sohn geſchenkt, aber ſie war ſo arm und ſo einſam, daß ſie niemanden hatte der bei ihm Pate ſtehen konnte. Und ſie ſeufzte und dachte: „Wo bekomme ich wohl eine Gevatterin her?" Da kam eines Abends mit der ſinkenden Dämmerung eine Frau zu ihr ins Haus, die hatte graue Kleider an und

ein graues Tuch um den Kopf geſchlungen; die ſagte: Ich will bei deinem Sohne Pate ſtehen, und ich werde dafür ſorgen, daß er ein guter Menſch wird und dich nicht Hungers ſterben läßt. Aber du mußt mir ſeine Seele ſchenken. Da zitterte die Mutter und ſagte: „Wer biſt du?“ „Ich bin die Frau Sorge,“ erwiderte die graue Frau. —Sudermann.

(*b*) Eines Abends, als wir nach Gewohnheit in tiefer Maske und abgeſondert auf dem St. Markusplatze ſpazieren gingen—es fing an, ſpät zu werden, und das Gedränge hatte ſich verloren—bemerkte der Prinz, daß eine Maske uns überall folgte. Die Maske war ein Armenier und ging allein. Wir beſchleunigten unſere Schritte und ſuchten ſie durch öftere Veränderung unſeres Weges irre zu machen—umſonſt, die Maske blieb immer dicht hinter uns. „Wir wollen uns hier niederſetzen und deutſch ſprechen“ ſagte der Prinz. „Ich bilde mir ein, man verkennt uns.“ Wir ſetzten uns auf eine ſteinerne Bank und erwarteten daß die Maske vorübergehen ſollte. Sie kam gerade auf uns zu und nahm ihren Platz dicht an der Seite des Prinzen. Er zog die Uhr heraus und ſagte mir laut auf franzöſiſch, indem er aufſtand: „Neun Uhr vorbei. Kommen Sie. Wir vergeſſen, daß man uns erwartet.“ Dies ſagte er nur, um die Maske von unſerer Spur zu entfernen. „Neun Uhr“ wiederholte ſie in eben der Sprache nachdrücklich und langſam. Wünſchen ſie ſich Glück Prinz (indem ſie ihn bei ſeinem wahren Namen nannte) „Um neun Uhr iſt er geſtorben“.—Damit ſtand ſie auf und ging. Wir ſahen uns ganz beſtürzt an. „Wer iſt geſtorben?“ ſagte der Prinz. —Schiller.

II. GRAMMAR.

1. Give the 3rd singular of the past tense and of the present perfect indicative of *bitten*, *wissen*, *schreiben*, *werden*, *stehen*, *wachsen*.

2. What prepositions are required after the following adjectives: *zufrieden*, *reich*, *frei*? Also translate: *to wait for*, *to think of*, *to laugh at*. Form six sentences.

3. Translate: *Some pens; some butter; a little ink; what kind of man? any man at all; both the sisters.*

4. Give the comparative and superlative of: *wenig*, *alt*, *gern*, *süsz*, *edel*, *munter*.

5. What is the order of words in sentences beginning with: *denn*, *sondern*, *womit*, *als*, *jedoch*, *hiermit*. Form six sentences.

II.—PROFESSIONAL EXAMINATIONS.

I.—FIRST PROFESSIONAL EXAMINATION.

BOTANY.

1. Describe briefly the salient characters of the following native plants, stating their habitat and natural classification: butterwort, foxglove, watercress, dandelion, rye grass.

2. State fully the main features in which a seed-bearing plant differs from a Fern.

3. Give an account of the process of carbon-assimilation in plants, stating fully the conditions necessary for it.

4. Give an account of the leading characters of the Gramineae, both vegetable and floral.

5. Describe fully the life-history of a Moss.

Only FOUR *of the above to be attempted for* FIRST PROFESSIONAL.

Questions 1 *to* 5 *to be answered for* FIRST B.SC.

No. 6 *to be answered by candidates for* M.A. *in addition to* 1 *to* 5.

6. Give a full account of the development and structure of the anatropous ovule, with special reference to the origin and mature state of the embryo-sac.

ZOOLOGY.

(*Candidates for* MEDICAL DEGREE *are only to answer* FOUR *questions.*)

1. What characters separate the Arachnida from the Crustacea?

2. What are the chief differences between Amphibia and Reptiles?

3. How are the Myriapoda classified? In what respects do they show relationship to the Insects?

4. Compare the structure and arrangement of the heart and chief arteries in a fish and a frog.

5. What do you understand by: Gastrula, Odontophore, Proscolex, Medusoid, Marsupial, Nephridium?

6. What are the chief characters of (*a*) the Echinodermata, *or* (*b*) the Birds?

PHYSICS.

(*Not more than* FOUR *of the following questions to be attempted.*)

1. Show how to find the magnitude and line of action of the resultant of two or more parallel forces acting in one plane on a rigid body.

A straight beam 3 feet long and weighing 4 lbs. has weights of 12 lbs. and 20 lbs. suspended from its ends, and it is supported in a horizontal position by a string. Find the stretching force in the string, and the point in the beam to which it is attached.

2. Explain how the velocity of propagation of sound in air has been determined, and state the result obtained. How does this result depend (1) upon change of atmospheric pressure without change of temperature, (2) upon change of temperature?

3. State Boyle's law of the relation of pressure and density in gases.

A given mass of air is heated at constant pressure from 0° C. to 100° C.: state the change of volume produced. If the same mass of gas were raised from 0° C. to 100° C. at constant volume, prove, by an application of Boyle's law, that the percentage increase of pressure produced in the latter case is equal to the percentage increase of volume in the former.

4. How would you compare the intensities of two sources of light, *e.g.* the flame of a candle and the flame of a gas burner?

Describe an experiment to show the compound nature of white light, and give an illustrative diagram.

5. Define magnetic dip and magnetic declination. Describe an experiment to determine the magnetic dip and declination at a given place.

How could you make an experiment to show that the action of the earth on a magnet is purely directional?

6. Currents are produced in a circuit by the motion of a portion of the circuit across the lines of force of a magnetic field. On what does the intensity of the current depend?

Apply your statement to the explanation of the action of the ordinary induction coil, accounting for the utility of the soft iron core of the primary circuit.

CHEMISTRY.

(FIVE *questions to be answered.*)

1. If you were given a mixture of ammonia gas and nitric oxide, how could you separate the two gases and obtain each pure? How could it be shown that both gases contain nitrogen?

2. State what you know about the composition of the following substances:—Nitre, bleaching powder, white lead, bone ash. By what reactions could you identify each?

3. Complete the equations:

$SO_2 + KOH =$
$H_2S + H_2SO_3 =$
$SnCl_2 + HgCl_2 =$
$KOH + CuSO_4 =$
$H_2S + FeCl_3 =$
$SO_2 + KMnO_4 + H_2O =$

State briefly what you would observe if each section were actually carried out.

4. If 50 c.c. of chlorine gas measured at 17° and 750 mm. were passed into a solution containing excess of potassium iodide, what would be the weight of the iodine liberated? [Cl = 35·5, I = 127.]

5. How can ethyl alcohol be converted into (*a*) ethyl bromide and (*b*) ethylene? Write the constitutional formula of each substance and explain the reactions by equations.

6. Explain and give examples of the use of the following terms: dibasic, exothermic, dissociation, valency, homologous series, hydrolysis.

II.—SECOND PROFESSIONAL EXAMINATION.

ANATOMY.

1. Describe the forms of the various temporary and permanent teeth placed further back than the canines.

2. Describe the dispositions of vascular and nervous structures to be seen on removal of the right pleura from the posterior mediastinum and from the necks of the ribs.

3. Describe the obliterated hypogastric arteries and the round ligament of the liver, naming the vessels whence they originally carried blood, and those into which they poured it.

4. Describe the articular surfaces of the joint between the carpus and thumb, and name the different muscles inserted into the metacarpal bone of the thumb, and those inserted into its first phalanx, mentioning the nerve supplying each.

PHYSIOLOGY.

(*Only* FOUR *questions to be attempted.*)

1. What are the principal functions of the liver? What is the hepatic as distinguished from the portal circulation, and what is the use of the former?

What is the amount of the blood-pressure in the portal vein?

2. What are the "extrinsic" and "intrinsic" cardiac nervous supplies which influence the movements, etc., of the heart? In what light are these respectively to be regarded from the point of view of the Neuron theory, and explain the action of atropin and nicotin from this aspect on the frog's heart. Can the heart beat automatically, *i.e.* without the assistance of nervous influences? If so, what explanation may be offered?

3. Enumerate the classes of food stuffs which are acted upon in the stomach, and describe the changes through which they pass under the action of the gastric juice. What are the characteristics of a soluble ferment generally, and of the ferments in the gastric juice especially?

4. What structural and chemical phenomena occur in the retina in consequence of changes in illumination?

5. Give an example of a typical reflex action, mentioning the nervous structures involved.

MATERIA MEDICA AND THERAPEUTICS.

1. Describe the pharmacological action on the blood of (a) *Iron*, (b) *Arsenic*, (c) *Quinine*, (d) *Calcium Chloride*.

2. Discuss the action of *Baths*, *Aconite*, *Quinine*, and *Phenacetin*, in reducing a feverish temperature. State the kind of cases in which each is most useful, and also the dose or method of application.

3. Give an account of the remedies you might use in a case of Uræmia to promote free perspiration. Write two prescriptions in illustration of your answer.

4. Describe the effects of chronic *Phosphorus* poisoning. Indicate shortly the chief therapeutical uses of Phosphorus, and state what preparation you would give internally.

III.—THIRD PROFESSIONAL EXAMINATION.

PATHOLOGY.

(*Only* FOUR *questions to be answered.*)

1. Describe the various forms of cells which may be present in the tissues in acute inflammatory conditions and discuss their origin and functions.

2. Give an outline of the parasitology of malarial fever, and state the chief facts known as to the spread of the disease.

3. Briefly describe the various forms of suppuration which may occur in the liver. Name the micro-parasites which may be present, and state how they reach the organ.

4. Give an account of broncho-pneumonia as regards etiology, naked-eye, and microscopic appearances. What results may follow this condition?

5. Describe the changes which may occur in the osseous system in rickets, and discuss the factors concerned in the production of this disease.

MEDICAL JURISPRUDENCE.

(FOUR *questions to be answered, of which No.* 5 *must be one.*)

1. Give a brief account of the procedure to be followed in the performance of post-mortem examinations for medico-legal purposes.

2. A body is found in a room with an incised wound of the throat. State the evidence which would lead you to infer that the case was one of suicide.

3. Mention some secondary causes of death resulting from wounds. Under what circumstances may death from such causes affect the legal responsibility of the assailant?

4. A man is found by the police lying in the street in a state of insensibility. Mention the various conditions to which his state may be due, and the chief points in the differential diagnosis.

5. Contrast the (*a*) symptoms, (*b*) post-mortem appearances, and (*c*) treatment in poisoning by Nitric Acid and Carbolic Acid.

PUBLIC HEALTH.

(FOUR *questions to be answered, of which No.* 5 *must be one.*)

1. State the changes which take place in the air of badly-ventilated dwelling-rooms. What effects upon health are produced amongst persons who constantly live under such conditions? Mention any simple tests by which the presence of impure air may be detected.

2. Mention the reasons why shallow well-water is regarded as a dangerous source of domestic supply; and explain how it is that such a water, even when contaminated by sewage, may be clear and palatable.

3. State shortly the elementary principles to be observed in the application of the "water-carriage system" of sewage-disposal to a dwelling-house.

4. Give briefly the chief provisions of the "Infectious Disease (Notification) Act, 1889."

5. Describe in detail the measures you would advise to be adopted for disinfection of the sick room and its contents after a case of diphtheria.

IV.—FINAL PROFESSIONAL EXAMINATION.

SURGERY.

(FOUR *questions to be answered.*)

1. Discuss in detail the circumstances under which the operation of colotomy is required. What operation would you perform and what extra precautions would you take if immediate opening of the bowel were necessary?

2. Describe the symptoms that result from traumatic rupture of the stomach, and give in detail the treatment.

3. Describe the histological processes involved in the regeneration of connective tissue, and state in what tissues this regeneration may be seen.

4. Give the varieties of dislocation of the shoulder, and describe in detail the diagnosis and treatment of the most common variety.

5. Give the differential diagnosis of the more common varieties of tumours growing from the lower jaw.

PRACTICE OF MEDICINE.

1. A man, aet. 36, had for some months been below par, and was losing flesh and colour, but continued at work, until one day, when he rapidly became comatose. On recovering consciousness, it was found that his right arm and leg were completely, while the lower segment of the face on the same side was partially, paralysed, and to every question he returned for answer either "Yes" or "No." His heart was not sound, but there were no murmurs, and dropsy was absent. He had never had syphilis.

Fill in the picture of all the additional symptoms which might be present. Give the diagnosis in full, and what would you find *post mortem* in the event of a fatal issue?

2. (*a*) What points in the history and symptomatology of pneumonia —apart from physical signs (percussion, auscultation, etc.)—would probably enable you to diagnose that disease?

(*b*) Give, in tabular form, the diagnosis of pneumonia in the stage of consolidation from pleuritic effusion.

3. Give a short sketch of the complications of diabetes mellitus.

4. Describe the causes, symptoms, diagnosis, and treatment of gallstones.

OBSTETRICS AND GYNAECOLOGY.

(N.B.—*Answer* FOUR *questions, including* 4 *and* 5.)

1. Describe the course of an attack of puerperal eclampsia, and give its treatment.

2. Describe the third cranial position, its mechanism, and the treatment of a tedious case.

3. Describe molar pregnancy, and give its symptoms, diagnosis, and treatment.

4. Describe the operations for incomplete and complete rupture of the perineum (*a*) at the time of rupture, (*b*) some months or years after rupture.

5. Enumerate the different forms of cystic tumours of the ovary and give the differential diagnosis in the early and later stages of such a growth.

VI.—FOR DEGREES IN LAW.

I.—PRELIMINARY EXAMINATION FOR B.L.

a.—ARTS AND SCIENCE PRELIMINARY.

(See pp. 499—522.)

b.—ARTS SUBJECTS.

(Same as for Degree of M.A. See pp. 523—549.)

II.—LAW EXAMINATIONS FOR LL.B. AND B.L.

CIVIL LAW—Three Hours.

(N.B.—*Candidates are requested to answer only* TEN *of the following twelve questions.*)

1. Explain the sphere of *fas* in early Roman law.

Describe the position of the plebeians, in respect of public and private rights, prior to the Servian Reforms.

2. "Self-redress is the ultimate source of all civil process."
Illustrate this statement from the provisions of the XII. Tables.
Explain the statement by Pomponius (Dig. 1. 2. 2. 6): Duodecim Tabularum et interpretandi scientia et actiones apud collegium pontificum erant.

3. Write brief historical notes on (*a*) *Quaestiones Perpetuae;* (*b*) *Concilium Principis;* (*c*) *Lex de imperio.*

4. Jurisprudentia est divinarum atque humanarum rerum notitia, justi atque injusti scientia.
Explain the significance of this definition.
Distinguish the more important meanings of the term *jus*.

5. Sketch briefly the history of divorce in Roman law. What forms of divorce were recognised in the time of Justinian?

6. Describe the process of *adoptio* in the classical law.
Distinguish *adoptio plena* and *adoptio minus plena* in the Justinianian law.

7. State the law as to the removal of a *tutor suspectus*.
Illustrate the application of the following rules:
(*a*) Et tutelam et curam placuit publicum munus esse.
(*b*) Ubi successionis est emolumentum, ibi et tutelae onus esse debet.
(*c*) In pupillum cuivis actionem in quantum locupletior factus est dandam D. Pius rescripsit.

8. Analyse the nature of *possessio*.

State the requisites of *usucapio* in the Justinianian law.

9. Explain *beneficium inventarii*.

Summarise the law as to (*a*) *aditio hereditatis*: (*b*) *ademptio legati*.

What actions were available to a legatee for the enforcement of his right?

10. State the modes in which an *obligatio* might be extinguished.

In what ways might a pignorate right be constituted?

Mention any exceptions to the rule: Potior est in pignore qui prius credidit pecuniam et accepit hypothecam.

11. By whom, and in what circumstances, could the following actions be brought: (*a*) *actio de tigno juncto*; (*b*) *actio institoria*; (*c*) *actio rationibus distrahendis*?

12. Translate and comment on the following texts:

Nam moribus institutum est ut, quum ejus aetatis filii sint, in qua ipsi sibi testamentum facere non possunt, parentes eis faciant.

Nunquam nuda traditio transfert dominium, sed ita si venditio aut aliqua justa causa praecesserit, propter quam traditio sequeretur.

Neque ex falsa demonstratione neque ex falsa causa legatum infirmatur.

Candidates who aim at the LL.B. STANDARD, *are recommended, in addition, to answer* TWO *of the following questions.*

1. What were the essential requisites of *pretium* in a sale?

2. Summarise the rules regulating the incidence of risk in a contract of sale.

3. Translate the following texts with brief notes on the words in italics:

Si sciens emam ab eo *cui bonis interdictum sit* vel *cui tempus ad deliberandum de hereditate ita datum est*, ut ei deminuendi potestas non sit, dominus non ero. (Dig. 18. 1. 26.)

Labeo scribit, si mihi bibliothecam ita vendideris, si *decuriones* Campani locum mihi vendidissent, in quo eam ponerem, et per me stet quo minus id a Campanis impetrem, non esse dubitandum, quin *praescriptis verbis agi* possit. Ego etiam *ex vendito agi* posse puto quasi impleta conditione, quum per emptorem stet quo minus impleatur. (Dig. 18. 1. 50.)

SCOTS LAW—THREE HOURS.

(*Not more than* TWELVE *of the following questions to be attempted, of which* ONE *must be in criminal law.*)

1. *Donatio non presumitur*. State the nature of the presumption and mention exceptions, giving reasons.

Illustrate the operation of the presumption from the case of a deposit receipt in name of a deceased produced by a relative who said that it was a gift from the deceased.

2. Mention the requisites for a valid stoppage *in transitu*. *Quid juris* if a bill has been given for the price?

Indicate how goods sold might come to be on shipboard without risk of stoppage.

3. Define *rei interventus*. Apply the doctrine to the case of a lease for years.

4. What liability does an assumed partner incur for the obligations of the firm? Figure cases to illustrate the rule and any possible exception from it. *Quid juris* if he is a dormant partner?

5. Does the marriage of a female partner dissolve a firm? Can a married woman become a partner? Give reasons. Notice the specialty of partnership with her husband.

6. In what ways and at whose instance may a company limited by shares be wound up?

7. Describe the sexennial limitation. Does it bar proof of the debt?

8. State the present law as to the heritable or moveable nature in the succession of the creditor of bonds both personal and heritable.

9. Discuss legitimation *per subsequens matrimonium*. Refer to (1) the matter of domicile, (2) the case of an intervening marriage.

10. What are the rights of a surviving spouse in the estate of the other? How may these be barred?

11. Explain the doctrine of approbate and reprobate with reference to the acceptance by a child of a provision under his father's settlement.

The provision is accepted and part of the estate subsequently falls into intestacy. *Quid juris?*

12. Distinguish between general and special retention, and give an example of each.

Should there be classed under either the preference of a clerk for arrears of salary?

13. Explain any five of the following :—*quadriennium utile*, deviation, *del credere* agency, dead freight, *beneficium ordinis*, delegation.

14. Explain the crime of perjury, and of subornation of perjury.

15. Define the crime of reset at common law and under the statute and explain its nature. Point out why it may now be less material to distinguish reset from theft than formerly.

CONVEYANCING—THREE HOURS.

(*Not more than* TWELVE *questions to be attempted.*)

1. Enumerate the various forms of holding known in the feudal system of Scotland, giving very briefly the characteristics of each, and stating which are now extant.

2. Explain the origin and purpose of the *a me vel de me* disposition. How might a split arise in the completion of title under such a disposition?

3. In what circumstances was a Charter of Resignation and Confirmation necessary? Give the import of its leading clauses.

4. What were the methods available to a general disponee for the completion of his title in 1840, 1870, and 1880 respectively?

5. Is it still open to a singular successor who has taken infeftment to tender the heir of the last entered vassal for an entry? Discuss the matter.

6. Explain the distinction between tenure and contract. Can a vassal renounce his feu *invito superiore*?

7. What is meant by Consolidation? How was it formerly and how may it now be effected?

8. Summarise the chief innovations introduced by the Conveyancing Act of 1874.

9. What is meant by Service? Indicate the successive stages in the development of Special Service as a step in the completion of title.

10. Define a real burden. Can it be constituted by a Notarial Instrument?

11. What is the *conditio si sine liberis*? Explain the circumstances regulating its operation (*a*) in the character of the deed, (*b*) in the relation of the parties. In a destination to a class where the vesting is postponed and the shares of predeceasers are destined to the survivors, explain precisely the result of the operation of the *conditio* in favour of the children of a member of the class who predeceases the period of vesting.

12. In heritage the presumption is for substitution, in moveables for conditional institution. Explain this rule and its effects. Give illustrations.

13. What were before 1874, and what are now, the essentials of a good prescriptive title to land? Is it competent to go beyond the deeds constituting a prescriptive progress (*a*) to attack, (*b*) to support the title? Explain the matter.

14. Can servitudes be established (1) by implied grant and (2) *rebus ipsis et factis*? Explain the matter carefully and give an illustration.

15. Discuss any *two* of the following cases:
(1) Bald *v.* Buchanan.
(2) Guthrie and M'Connachy *v.* Smith.
(3) Campbell *v.* Clydesdale Banking Co.
(4) Buchanan *v.* Andrew.

PUBLIC INTERNATIONAL LAW—THREE HOURS.

(*Attempt only* SEVEN *questions under head A.*)

A.

1. In the event of rebellion in Cape Colony and Natal would you advise the British Government to recognise the rebels as belligerents? Give reasons.

2. Scottish shipbuilders build a man-of-war for a foreign government. Can they sue in the Court of Session for the price, (*a*) founding jurisdiction by arresting funds standing to the credit of the foreign government in a Scottish bank, (*b*) if the foreign government have previously raised an action in the Court of Session for damages for late delivery?

3. Is jurisdiction exercisable against foreign merchant vessels for crimes committed passing through territorial waters (*a*) by international law, (*b*) by British municipal law?

4. Might any international consequences have resulted (*a*) if the British Government had refused to prosecute the Jameson Raiders, (*b*) if no municipal legislation had existed for punishing them, (*c*) if they had been acquitted under circumstances showing a manifest disregard for justice on the part of judge or jury?

5. Can a British subject throw off his allegiance (*a*) by becoming naturalised with an alien enemy in time of war, (*b*) by becoming naturalised with an alien enemy, the naturalisation being complete before the outbreak of hostilities, (*c*) by any step short of complete naturalisation, such as acquiring a domicil or making a declaration of an intention to become naturalised?

6. What was the legal character of the late Venezuelan blockade? Compare it with the blockade of Formosa in 1884 and that of Greece in 1886.

7. Does the public debt of a state differ (*a*) from other state obligations, in respect of the effect of a default therein in affording, in law or according to practice, a ground of complaint to the state of a creditor injured by default, (*b*) from other property, in its liability to confiscation when in the hands of an alien enemy?

8. Discuss the legitimacy of demanding contributions from an undefended coast town under threat of bombardment.

9. A man-of-war captures two merchantmen. One is ransomed. Within a few hours the captor, while proceeding to port with the other, and having on board a hostage and the ransom bill, is herself captured. To whom do the merchantmen belong?

10. Mention the three leading principles of naval warfare laid down in the Declaration of Paris.

B.

(*Write short essays on any* TWO *of the following topics. These essays will be marked more highly, and should be rather fuller, than the answers under head A.*)

11. The liability to capture of private property on land and on sea respectively, and the propriety of assimilating the two.

12. Early foreign Enlistment Acts and the part played by the United States in advancing the law of neutrality.

13. The Three Rules of the Treaty of Washington 1871 and the present state of the law as to the responsibility of neutral governments for armed vessels equipped in their ports.

14. The distinction between those acts which neutral individuals do at their own risk and those which their governments are bound to prevent.

INTERNATIONAL PRIVATE LAW—Three Hours.

(Attempt SEVEN *questions under head A, with* TWO *questions under head B, which are marked higher, and should be answered rather more fully, than questions under head A. For distinction, a reference to cases and other authorities is expected.)*

A.

1. What is the nationality of (*a*) the son, born in Scotland, of a French subject, (*b*) the son, born in France, of the son, also born in France, of a natural-born British subject, (*c*) a naturalised alien returning to his native land? Might a conflict arise in any of these cases?

2. A domiciled Scotsman marries, at Constantinople and according to Turkish law and custom, a native woman. Thereafter, being advised that this marriage is illegal, he marries an Englishwoman according to English law and by English rites at the British embassy. Which marriage will be recognised in Scotland?

3. A domiciled Scotsman breaks up his establishment in Scotland and goes to settle in Hong Kong, to take up an appointment of a permanent character, and dies there survived by a son born in Scotland before and a son born at Hong Kong after his marriage, which was celebrated at the British consulate, with their mother, a domiciled Englishwoman. The mother being dead, who will inherit (*a*) his Scotch heritage, (*b*) his Scotch moveables, (*c*) his English realty, (*d*) his English personalty?

4. A, domiciled in Scotland, executes, while travelling in England, a holograph will (invalid by English law). He thereafter acquires an English domicil and dies. B, domiciled in England, executes, while travelling in Scotland, a holograph will. Both are British subjects. Are their wills, or is either will, valid?

5. At a time when such an imputation was not actionable in England, a domiciled Scotswoman, while travelling in England, imputed want of chastity to an Englishwoman. Could she be sued therefor in the Scotch Courts?

6. What different laws may be and have been applied to determine the validity of assignments of *jura crediti*, *e.g.* policies of insurance? Which do you consider the most convenient?

7. Are British and foreign vessels, suing and defending in a British admiralty court, placed on an equal footing, in respect of (*a*) the statutory limitation of liability, (*b*) the sailing regulations to which they will be held bound to have conformed respectively?

8. Will British courts interfere if a British subject applies to goods, manufactured and sold by him in a foreign country, a design registered in the United Kingdom under the Patent, Design and Trade Mark Act, 1883? State the principle.

9. Can a decree, obtained in the Scottish courts against a Scotsman for a debt contracted and payable in Scotland, be enforced by imprisonment in England, the debtor having put himself within the jurisdiction of the English courts and English law permitting imprisonment for debt in certain cases.

10. Discuss the question how far in general the provisions of the Bills of Exchange Act, 1882, as to the law governing (*a*) the formal validity and interpretation of the various contracts embodied in a bill of exchange, (*b*) the performance of their duties by the payer and holder respectively, coincide with the ordinary international rules relating to contracts.

B.

11. *Mobilia sequuntur personam.* Discuss the greater and less application that may be given to this maxim.

12. International private law may be described as the attempt to secure that the same judgment shall everywhere be given between the same parties on the same facts. Discuss this, and state some of the leading exceptions which have been recognised or suggested.

13. Discuss the application of the *lex fori* to questions of (*a*) evidence, (*b*) prescription or limitation of actions.

14. Discuss the grounds on which the courts of this country will, or will not, refuse to enforce the judgment of a foreign court.

JURISPRUDENCE—Three Hours.

(*Only* SEVEN *questions to be attempted under head A.*)

A.

1. What is Maine's account of the origin of individual property? Refer to any instance illustrating the process.

2. Mention any points of resemblance and of difference between the ancient family community and the medieval fief.

3. "The confusion between Implied Contracts, which are true contracts, and Quasi-Contracts, which are not contracts at all, has much in common with the famous error which attributed political rights and duties to an Original Compact between the governed and the governor. . . . The doctrine of an Original Compact 'may be a *convenient* form for the expression of moral truths'" (*Maine* quoting *Whewell*). Discuss this.

4. What is meant by saying that the electoral franchise is a trust and not a right? May any conclusion be drawn as to the propriety of the ballot or the representation of property in the House of Commons?

5. Discuss the action of a judge in attaching to a contract results which in point of fact were not contemplated by the parties.

6. Of what are legitim and *jus relictae* survivals? Do you think they should be retained?

7. Analyse the following into a command of the sovereign and a sanction, or (if you prefer) give reasons for holding that they cannot be

so analysed: the Act of Settlement calling the Hanoverian line to the throne, the Mercantile Law Amendment Act, 1856, providing that cautionary obligations must be in writing, the Naturalisation Act, 1870, permitting aliens to hold land, the Sale of Goods Act, 1893, providing that property in specific goods shall pass on the completion of the contract of sale.

8. A local or mercantile custom, not heretofore judicially recognised, is successfully pleaded in a lawsuit and is adjudged retrospectively to have affected the relations of parties. At what moment do you consider it has become law?

9. Are the following rights *in rem* or *in personam*: the right of a father to the custody of his child, the right of a father to aliment from his child, the master's right to the services of a slave and a free labourer respectively, the right of the purchaser of specific goods before delivery, the right to a patent, the right of a person to whom a gold watch, or a sum of money, has been bequeathed?

10. "The relation of obligation to personal freedom resembles that of servitude to dominium: it is, as it were, so much deducted from the ideal whole" (*Moyle* following *Savigny*). Discuss this.

11. In contract is the will, or its expression, to be the more regarded?

B.

(*Write short essays on any* TWO *of the following topics. These essays will be marked more highly, and should be rather fuller, than the answers under head A.*)

12. "The primitive state cannot always compel obedience to its own decisions. But in proportion as its power is weak its sphere is wide" (*Anson*).

13. The truth of the statement (*e.g.* of Mr. Frederic Harrison) that the unit of the state is the family, not the individual, as applied (*a*) to the ancient. (*b*) to the modern. state.

14. The difference between the legislative and the judicial function.

15. The grounds, practical or other, of the maxim *ignorantia juris neminem excusat.*

CONSTITUTIONAL LAW AND HISTORY—Three Hours.

(*Omit* TWO *questions in each part.*)

Part I.

1. What was the main difference between continental feudalism and feudalism as established or confirmed in England by William I.?

2. "In itself the Charter was no novelty, nor did it claim to establish any new constitutional principles" (*J. R. Green*). Discuss this estimate of Magna Carta.

3. Sketch very shortly the process by which the Saxon witan and the Norman great council became the model parliament of 1295.

4. What are the Acts of Supremacy and Uniformity (1 Elizabeth, cc. 1 and 2)?

5. What was the origin of the Court of Star Chamber, and when was it abolished?

6. Discuss James I.'s title to the throne of England.

7. What were the circumstances which gave rise to the trial of the seven bishops, and on what did the case mainly turn?

Part II.

8. Contrast the peerages of Scotland and of Ireland in respect of (*a*) the power to create new peers, (*b*) the number of representative peers, (*c*) the period for which they are elected, (*d*) eligibility to sit in the House of Commons.

9. Discuss the problem of a standing army as it confronted the parliaments of William III., and explain the solution arrived at.

10. By what legislative and administrative machinery is appropriation of supplies secured?

11. What religious acts must the sovereign perform at or after his accession, and under what statutory authority in each case?

12. What is the legal position of a soldier ordered by his commanding officer to fire on a mob?

13. What is meant by "liberty of the press" in England, and when and in what circumstances did it originate?

14. Discuss in its constitutional aspect Lord Rosebery's proposal that Lord Kitchener should be made secretary for war with a seat in the Cabinet as a non-party military expert.

MERCANTILE LAW—Three Hours.

(*Not more than* TWELVE *of the following questions to be attempted.*)

1. State the essentials of a valid Bill of Exchange. Differentiate between a Bill of Exchange and a Cheque.

2. What is meant by the negotiation of a Bill? How is a Bill negotiated (1) when the Bill is payable to bearer, and (2) when it is payable to order?

3. To whom, and for what purpose, is it necessary to give notice of dishonour of a Bill of Exchange? *Quid juris* in the case of a person who has guaranteed payment of the Bill? When is the notice dispensed with?

4. A banker received payment of a cheque to which his customer is found to have had a defective title. Mention and comment upon the statutory provision for the banker's protection.

5. Define notour bankruptcy. A firm is charged under a decree for payment of £100. On the expiry of the days of charge without payment what further action, if any, should be taken to make the firm notour bankrupt?

6. The wife of a person who becomes bankrupt lends him the sum of £500 before his bankruptcy from her separate estate. The loan can be duly proved. Is the wife entitled to rank on the bankrupt's estate for the amount of the loan, and if so to what extent?

7. State the various methods prescribed by statute by which the estate of a person who dies insolvent, or insolvent and intestate, may be distributed among his creditors. Give a short outline of the procedure in each case.

8. In the absence of any agreement to the contrary, what are the rules for determining (*a*) the partners' shares in the profits and losses of a business, (*b*) their right to interest on capital, or on advances made beyond their capital, and (*c*) their right to remuneration for acting in the partnership business?

9. What is the effect of the registration of the Memorandum of Association of a joint stock company followed by the issuing of the Certificate of Incorporation by the Registrar? How may the Memorandum be altered?

10. What is the list of contributories, and who are liable to be settled on it? A purchaser of shares delays or has declined to register the transfer and the seller's name is still on the register. *Quid juris?*

11. What are the essential elements pertaining to the Contract of Insurance?

12. Explain the following descriptions of Policies under a Contract of Marine Insurance: (*a*) An Interest Policy, (*b*) A Wager Policy, (*c*) A Voyage Policy, (*d*) A Time Policy, (*e*) A Valued Policy, (*f*) An Open Policy.

13. Explain the meaning of the terms, "Barratry of the Master and Crew," "Jettison," and "Perils of the Sea."

14. State briefly the substance of the ordinary cesser clause in a Charter Party. Does this clause relieve the charterer of all liability under the Charter Party?

15. Goods are shipped on a bill of lading containing the usual negligence clause. The engines of the vessel are defective and break down causing loss to the cargo owner. The defect was serious and existed before the voyage commenced. There is evidence that it was due to the act of the engineer in port. State the considerations which will lead to the liability or non-liability of the shipowner for the loss.

FORENSIC MEDICINE—Two Hours.

(Note.—Four *questions to be answered, of which No. 5 must be one.*)

1. Define a wound in law. Name the classes of wounds met with in medico-legal work, and state the kinds of weapons by which they are commonly produced. In the examination of a dead body with wounds upon it, and of its surroundings, what points would you reckon as important?

2. What indications in a will, and in the circumstances of its execution, would lead you to enquire into the testamentary capacity of the testator? What are the criteria of testamentary capacity?

3. Give the form and substance of a valid medical report on the post-mortem examination of a body where death has resulted from violence.

4. What are the responsibilities of a medical practitioner in the treatment of persons who place themselves under his care? What is meant in law by Mal-praxis?

5. State the sources and lines of evidence by which a charge of wilful poisoning might be established. Discuss the relative value of these, and illustrate your answer with reference to a case of Oxalic acid poisoning.

VII.—FOR DEGREE OF B.D.

I.—FIRST DEPARTMENT.

HEBREW.

FIRST PAPER—Three Hours.

1. Point and translate the following:

ועתה ישראל מה יהוה אלהיך שאל מעמך כי
אם ליראה את יהוה אלהיך ללכת בכל דרכיו
ולאהבה אתו ולעבד את יהוה אלהיך בכל לבבך
ובכל נפשך: לשמר את מצות יהוה ואת חקתיו
אשר אנכי מצוך היום לטוב לך: הן ליהוה
אלהיך השמים ושמי השמים הארץ וכל אשר
בה: רק באבתיך חשק יהוה לאהבה אותם
ויבחר בזרעם אחריהם בכם מכל העמים כיום
הזה:

כה־אמר יהוה צבאות אלהי ישראל אתם
ראיתם את כל־הרעה אשר הבאתי על־ירושלם
ועל כל־ערי יהודה והנם חרבה היום הזה ואין
בהם יושב: מפני רעתם אשר עשו להכעסני
ללכת לקטר לעבד לאלהים אחרים אשר לא
ידעום המה אתם ואבתיכם: ואשלח אליכם
את־כל־עבדי הנביאים השכים ושלח לאמר אל־
נא תעשו את דבר־התעבה הזאת אשר שנאתי:
ולא שמעו ולא הטו את־אזנם לשוב מרעתם
לבלתי קטר לאלהים אחרים:

II. Give the following in concise idiomatic Hebrew (with the points):

Now, in the ninth year of the reign of Zedekiah, on the tenth day of the tenth month, the King of Babylon made a second expedition against Jerusalem, and lay before it eighteen months, and besieged it with the utmost application. There came upon them also two of the greatest calamities, at the time that Jerusalem was besieged, a famine and a pestilential distemper, and made great havoc of them; and though the prophet Jeremiah was in prison, he did not rest, but cried out, and proclaimed aloud, and exhorted the multitude to open their gates, and admit the King of Babylon, for that, if they did so, they should be preserved, and their whole families; but if they did not so, they should be destroyed; and he foretold that, if any one staid in the city, he should certainly perish by one of these ways—either be consumed by the famine, or slain by the enemy's sword; but that if he would fly to the enemy he should escape death: yet did not these rulers who heard believe him, even when they were in the midst of their sore calamities; but they came to the King, and, in their anger, informed him what Jeremiah said, and accused him, and complained of the prophet as a madman, and one that disheartened their minds, and, by the denunciation of miseries, weakened the alacrity of the multitude, who were otherwise ready to expose themselves to dangers for him, and for their country, while he, in a way of threatening, warned them to fly to the enemy, and told them that the city should certainly be taken and be utterly destroyed. JOSEPHUS.

SECOND PAPER—THREE HOURS.

I. Jeremiah xxxi. 1—9.

1. Translate the above.

2. Parse אבנך, תעדי, and משחקים in v. 4; תטעי and וחללו in v. 5; רני and הושע in v. 7.

3. Give syntactical notes on הלוך כה׳ יש׳ in v. 2; חסד in v. 3; שמחה and הושע in v. 7; and בה in v. 9.

4. Give exegetical notes on וחללו in v. 5; and נצרים in v. 6.

5. To what do the words מצא חן במדבר וגו in v. 2 refer? What support does the context give to your interpretation?

6. Examine and account for the following renderings of the Septuagint:

(*a*) In v. 2, from מצא to the end of the verse: Εὗρον *θερμὸν ἐν ἐρήμῳ μετὰ ὀλωλότων ἐν μαχαίρᾳ· βαδίσατε καὶ μὴ ὀλέσητε τὸν Ἰσραήλ.*

(*b*) In v. 4 for תעדי תפיך *ἐπιλήψει τύμπανόν σου.*

(*c*) In v. 5 for וחללו *καὶ αἰνέσατε.*

(*d*) In v. 7 for הושע יי את עמך Ἔσωσεν Κύριος τὸν λαὸν αὐτοῦ.

(*e*) In v. 8 for בם עור ופסח ἐν ἑορτῇ φάσεκ.

II. Psalm lxxiii. 7-10.

1. Translate these verses.

2. Parse ימיקו in v. 8; שתו in v. 9; ימצו in v. 10; אבינה in v. 17; ספו and תמו in v. 19; מהקיץ and בעיר in v. 20.

3. Explain the syntax of יצא עינמו in v. 7; שתו . . . תהלך in v. 9; מי מלא in v. 10; ואמרו in v. 11; ואהי נגוע in v. 14; and עד אברא . . . אבינה in v. 17.

4. Remark on אם in v. 15; ואחשבה in v. 16; and on למו in v. 18.

5. Why the Qri (ישוב) in v. 10, and (הוא) in v. 16?

6. The Septuagint has, for עינמו (v. 7) ἡ ἀδικία αὐτῶν, and for ומי מלא ימצו למו (v. 10) καὶ ἡμέραι πλήρεις εὑρεθησονται αὐτοῖς. What Hebrew text does this represent?

III. State succinctly what you know about the composition of the book of Jeremiah, and mention the characteristics of the Septuagint Version of the book.

NEW TESTAMENT EXEGESIS—THREE HOURS.

1. Examine the beginning and the end of Acts, compare these with the intervening portion, and thence deduce, so far as the materials allow, the main scope of the book and the literary purpose of the author.

2. State and examine any one of the hypotheses which posit the composite authorship of the Acts. Indicate the lines of argument which go to prove the unity of authorship.

3. Mark iii. 21, 22. Compare this passage with the corresponding passages in Matthew and Luke, and explain the differences by any hypothesis which will also account for the peculiarities of form in the narratives and for their historical setting in Mark.

4. Translate Mark vii. 14—19, with critical and exegetical notes. Explain the connection between the several clauses of verse 19.

5. Translate II. Tim. ii. 14—21, with exegetical remarks bearing especially on the figurative expressions used in the passage.

6. Comment on II. Tim. iii. 10—17, clause by clause. What different shade of meaning is given according as the perfect or the aorist is adopted in verse 10?

7. I. Tim. iii. 14—16. Discuss the various readings in the sixteenth verse, and the connection between the clauses of the whole passage.

APOLOGETICS—Three Hours.

1. Criticise Kant's Definition of Religion; consider its connection with the Theology of his time and his own system of Philosophy; and shew how he applies it to the criticism of Christian Doctrine and Worship.

2. Give Hegel's view of the historical evolution of Religion as a whole, with his characterisation of the particular Religions. Criticise his views of (1) Religion as such; (2) the Hebrew Religion.

Or

Summarise and criticise Hegel's Discussion of the Proofs of the Existence of God.

3. Give Max Müller's Classification of Religions, with its determining principle. Criticise his Definition of Religion and his view of Mythology. Mention his most important works on the Science of Religion, and shew how he has contributed to advance its method and results.

4. Give an account of the Discovery, contents, and value of the Apology of Aristides. Consider its date.

5. Give a brief literary account of Justin Martyr's Apologies, and summarise from them his leading lines of apologetic argument with Pagans and Jews.

6. (1) How does Tertullian vindicate the 'caussa Christianorum'? (2) How does Origen deal with the objections to (*a*) the Christian Doctrine of a special Providence, (*b*) the Incarnation, (*c*) the Resurrection?

7. Explain Butler's Method, giving some illustration of it; and examine the chief objections taken to it. How is the Analogy related to the Deistical Controversy?

8. How does Butler vindicate "the general doctrine of religion, that our present life is a state of probation for a future one"? Analyse his discussion, and consider its relevancy to contemporary religious thought.

9. Examine (1) Butler's distinction between Natural and Revealed Religion; (2) his discussion of man's limited knowledge of God's government and of "speculative difficulties"; (3) his theory of probable evidence and his application of it to the evidences of Christianity.

DIVINITY—Three Hours.

I.—DOCTRINE OF GOD; THE TRINITY; CHRISTOLOGY.

(*Not more than* SEVEN *questions to be taken.*)

1. Show how the Ontological Proof is dealt with by (1) Anselm; (2) Descartes; (3) Kant; (4) Hegel.

2. Discuss (1) Kant's criticism of the Teleological Proof; and (2) the bearing of the Theory of Evolution upon the Teleological Argument generally.

3. Mention the leading Names of God in Scripture, and point out their original meaning. Review the Biblical Evidence adduced for the Doctrine of the Trinity.

4. Trace generally the development of the Doctrine of the Trinity in the Ancient Church through its different stages.

5. State the main positions of the Nicaean Creed. Give the Biblical Proof of the Divinity and Personality of the Holy Spirit, and explain what is meant by the *filioque* clause.

6. Define accurately the views as to the Divinity of Christ held by Arians, Semiarians, Sabellians, Socinians, Unitarians.

7. What is the Christological Problem? How far does Biblical evidence point to a solution? Criticise the theory that the Incarnation would have taken place had man not sinned.

8. Define carefully the views on the Person of Christ ascribed to (1) Apollinaris; (2) Nestorius; (3) Eutyches.

9. Analyse the Chalcedonian Symbol, and give the meaning and reference of the following terms: ἀσυγχύτως, ἀτρέπτως, ἀδιαιρέτως, ἀχωρίστως.

10. Describe generally the idea of *Kenosis*, and give an account of any two of the chief theories. Explain and criticise the Lutheran *communicatio idiomatum*.

II.—BIBLICAL THEOLOGY OF EPISTLE TO THE ROMANS.

(*Alternative with* III. THREE *questions only required.*)

1. Summarise Paul's discussion of Justification not by works of Law, but by Faith. Give generally his view of the nature and function of the Law.

2. Indicate the leading points in Paul's Anthropology. Explain especially his use of the terms Flesh and Spirit.

3. Elucidate the following points: (1) Paul's view of the Death of Christ as a ἱλαστήριον; (2) his discussion of the case of Abraham; (3) his argumentation in Chs. IX., X., and XI., and how it bears on the Doctrines of Predestination and Election.

4. How does Paul deal with Heathenism and Judaism, and how does he represent and define Christianity as the Gospel of Jesus Christ in relation to them? Comment on the phrase 'Paul's Philosophy of History.'

III.—THE CHURCH AND THE SACRAMENTS.

(*Alternative with* II. THREE *questions only required.*)

1. Summarise the teaching of the New Testament concerning the Nature, Authority, and Offices of the Church in the light of contemporary Biblical Criticism and Theology.

2. State and examine any recent theories as to the origin and validity of the Episcopate founded upon new historical examination of the Post-Apostolic Age. Add a note on Cyprian's 'De Unitate Ecclesiae.'

3. Contrast the Roman Catholic and Protestant views of the Nature, Marks, and Authority of the Church; and discuss in connexion the distinction between the Visible and the Invisible Church.

4. Discuss (1) Infant Baptism; (2) Transubstantiation; (3) Consubstantiation; (4) Calvin's doctrine of the Lord's Supper.

CHURCH HISTORY—Three Hours.

1. Outline briefly the life of Wycliffe, and estimate his influence as a reformer.

2. Trace the rise and course of the 'Great Schism,' and indicate its effect on the movement for reform.

3. Give an account of the main doctrines of John Huss. Who were his precursors and coadjutors in Bohemia? Point out the connexion between Huss and Wycliffe.

4. Mention the main acts and decrees of the Council of Constance.

5. Summarise the leading positions of the book *Defensor Pacis*. Who was its author?

6. Give a brief account of any *two* of the following: William of Occam, John Gerson, Savonarola, Catherine of Siena, and Nicholas de Lyra.

7. Who were the leading mystics of this period? Discuss their general teaching and influence.

8. Indicate the distinctive characteristics of the following parties: Lollards, Beghards, Beguins, Friends of God, Flagellants, Brethren of the Free Spirit.

9. Characterise briefly the following Popes: Urban VI., Martin V., Nicholas V., and Pius II.

10. How came the Greek Church to be represented at the Council of Florence? What part did her representatives play there? and how were they received on their return to the East?

BIBLICAL CRITICISM.

a. TEXTUAL CRITICISM—Three Hours.

1. Explain the terms *uncial*, *cursive*, *palimpsest*, *itacism*, *homœoteleuton*, *dittograph*.

2. What different meanings are attached to the word *text*? Illustrate by examples. What is the precise meaning of the phrase, *type of text*?

3. Westcott and Hort distinguish several types of text. What names do they give to them, and in what manuscripts are these types of text severally represented?

4. What means are available for determining (*a*) the age of a MS., and (*b*) the age of its text?

5. Into what groups do the MSS. of the Gospels fall? What are the leading characteristics of the several groups?

6. Describe ℵBCD, and give an account of any controversies regarding one or more of them.

7. Give some account of the Latin and the Syriac Versions, and indicate their value in Textual Criticism.

8. State in a brief form Tischendorf's Canons for determining the text of the New Testament. Explain and illustrate them by examples.

b. HERMENEUTICS—Three Hours.

1. Is Textual Criticism a part of Hermeneutics? State precisely the province assigned to Hermeneutics by those who answer this question (*a*) in the affirmative, (*b*) in the negative. Which view do you take? Justify your answer, and refute the other view.

2. State the general causes by the operation of which several meanings have come to be attached to certain words. When a word having several meanings occurs in a passage, how is the particular meaning in that passage to be ascertained?

3. Mention the influences which modified the Greek language as it passed from Classic Greek to New Testament Greek, and state the chief points of distinction between the two.

4. Indicate the outstanding features presented by the style and diction of (1) Paul's Epistles, (2) John's Gospel, and (3) the Epistle to the Hebrews.

5. Illustrate the errors arising (*a*) from neglecting the context, (*b*) from mistaking juxtaposition for context, and (*c*) from disregarding the emotional element in a passage.

6. What causes lead a speaker or writer to use figurative language? Classify these causes, and hence deduce the rules for the interpretation of such language.

7. Distinguish between Fable, Parable, and Allegory. Give the rules for interpreting the parables of our Lord, and show their practical application by interpreting the parables of the Lost Sheep, the Lost Piece of Money, and the Prodigal Son.

8. State and compare the conditions under which the allegorical method of interpretation arose among (1) the Stoics, (2) the Jews of Alexandria, and (3) the early Christians.

XIV.—VACATION EXERCISES, Etc.

FOR 1903 4.

HEBREW AND SEMITIC LANGUAGES.

Prizes are offered :

1. For an original composition in Hebrew.
2. For readings in the Old Testament Scriptures.
3. For *viva voce* repetition of selected passages.

Professions to be given in, in writing, not later than 9th Nov., 1903.

GREEK CLASSES.

Open to any Member of the Greek Class, Sessions 1902-3 and 1903-4.

1. For Attic Prose—Bacon, Essay xxv. *Of Dispatch.*
2. To write an English mime, in verse, in imitation of Herodas.
3. To learn by heart Theocritus, *Idyll II.*
4. To learn by heart Demosthenes, *De Corona*, 169-206, from Ἑσπέρα μὲν γὰρ ἦν . . . to δουλευούσῃ τῇ πόλει φέρειν ἀνάγκη, omitting documents.

The same student may enter for all the above competitions. Several prizes may be given for each competition. Junior students will be judged on a more lenient standard.

The prose to be sent in by 24th October, 1903.

HUMANITY CLASS.

Prizes will be given for Vacation Exercises as follows :

I. Open to all members of the Middle or Senior Classes of 1902-1903 :—
   To learn by heart Virgil, *Aen.* IV. 1—159 and 474—705.

II. Open to all members of the Senior or Honours Class of 1902-1903 :—
   For Latin Prose—A Short Latin Essay on the following subject : "Party and Faction," illustrated especially from Roman History.

The examinations in the repetition will be held early in November, 1903. The essays must be sent in to the Professor on or before 31st October. Each exercise must bear a motto, and be accompanied by an envelope bearing the same motto, with the writer's name inside, together with a statement that the exercise is his own unaided work.

CLASS OF BOTANY.

A prize is offered to matriculated students who have passed through the Class of Botany in the University or Queen Margaret College, for the best and approved Herbarium of Scottish Phanerogamous and Vascular Cryptogamous Plants, to be named after Hooker's *Students' Flora of the British Islands.* The specimens must have been collected upon the mainland of Scotland, or upon the Scottish Islands, between 20th April, 1902, and 15th October, 1903, and must have affixed, in addition to the name, the date and locality of collection.

The Herbaria must be sent, addressed to the Professor of Botany, to the University of Glasgow, on or before 15th October, 1903, and with each a sealed note bearing a motto outside, and containing the name of the competitor, with a declaration that the plants in the collection have all been gathered by himself in Scotland, and within the period above stated, and that they have been named by him without assistance, save that derived from books on Herbaria.

The collections must be accompanied by a numbered and arranged list of the plants contained in them.

Students of the first year in Botany are informed that a similar prize will be offered in October, 1904, and are advised to begin collecting for that competition in April, 1903.

MORAL PHILOSOPHY.

A sum of five guineas, given by Mrs. John Caird, will be awarded in prizes to the students who, entering the Honours Class for the first time in session 1903-4, gain the highest marks in an examination on (1) Aristotle's *Ethics*, (2) Spinoza's *Ethics*, and (3) Green's *Prolegomena to Ethics*.

XV.—FINANCIAL STATEMENT OF THE UNIVERSITY FOR 1901-1902.

INCOME.

I. Teinds, Feu-duties, Ground Annuals, Dividends, and Interest (including Queen Margaret College, £859 8s. 8d.), -		£12,331 9 11¾
II. Parliamentary Grant—		
(*a*) Under Universities Act,	£12,180 0 0	
(*b*) Under Education and Local Taxation Act,	8,700 0 0	20,880 0 0
III. Special Endowments—		
(*a*) Chairs,	£1,912 6 8	
(*b*) Lectureships,	832 8 2	
(*c*) Demonstratorships, etc.,	366 7 8	3,111 2 6
IV. Class Fees—		
(*a*) Constituting the Fee Fund (including Queen Margaret College, £2,413 19s. 0d.),	£19,101 16 0	
(*b*) Other Classes,	1,205 18 1	20,307 14 1
V. Other Fees—		
(*a*) Matriculation (including Queen Margaret College, £354 16s.),	£2,104 6 6	
(*b*) Examination and Graduation (including Queen Margaret College, £630 10s. 6d),	4,672 1 0	
(*c*) Registration (including Queen Margaret College, £27),	240 0 0	
(*d*) Recognition towards expenses of inspection,	5 5 0	7,021 12 6
VI. Library—		
(*a*) Subscriptions,	£63 10 6	
(*b*) Revenue of Legacy Funds,	48 0 0	
(*c*) Annual Grant from M'Callum Fund for Celtic Library,	10 0 0	121 10 6
		£63,773 9 6¾

EXPENDITURE.

I. University Court and Senate—		
(*a*) Secretary of University Court (including outlays, £165 11s. 2d.),.	£465 11 2	
(*b*) Clerk of Senate, ...	262 10 0	
(*c*) Assistants to Clerk of Senate (including incidental expenses, £106 10s. 3d.), - - - - -	704 0 3	
		£1,432 1 5
II. General Council—		
(*a*) Registration, ...	£106 13 6	
(*b*) Clerk, ...	75 0 0	
(*c*) Printing and Outlays, per Clerk, .	126 7 2	
		308 0 8
III. Business—		
(*a*) Factors (including outlays, £86 6s. 6d.),	£718 13 0	
(*b*) Auditors, ...	31 10 0	
(*c*) Law Agents, ...	8 2 8	
		758 5 8
IV. Ministers' Stipends, ...		1,831 17 5
V. Pension Fund, ...		4,000 0 0
VI. Salaries—		
(*a*) Principal, ...	£1,100 0 0	
(*b*) Professors under Ordinance No. 25,	23,651 0 0	
(*c*) Other Professors, ...	2,035 4 0	
(*d*) Lecturers (including £1,667 19s. 1d. at Queen Margaret College), .	5,015 16 9	
(*e*) Assistants and Demonstrators (including £677 8s. 1d. at Queen Margaret College), ...	6,408 6 4	
(*f*) Examiners (including expenses, £142 2s. 1d.), ...	1,377 14 3	
(*g*) Reports on Applications for Recognition, ...	5 5 0	
		39,593 6 4
VII. Library, ...		1,871 9 1
VIII. Museum, ...		343 9 9
IX. Observatory, ...		343 9 9½
X. University Buildings—		
(*a*) Maintenance and Upkeep of Grounds,	£3,516 19 6	
(*b*) Lighting, ...	665 18 3	
(*c*) Heating and Ventilating, . .	941 9 10	
(*d*) Water, ...	139 14 8	
(*e*) Pathological Institute at Western Infirmary	331 19 10	
(*f*) Telephone Rentals, ...	33 17 2	
(*g*) Grant to Gymnasium for Electric Light Installation, ...	17 5 0	
		5,647 4 3
Carry forward, ...		£56,129 4 4½

			£	s.	d.
	Brought forward,		£56,129	4	4½
XI.	Insurance,		369	14	0
XII.	Service and Cleaning,		1,229	10	5
XIII.	Class Expenses, Apparatus, etc.—				
	(*a*) Prizes and Medals,	£239 7 8			
	(*b*) Lantern Slides,	147 18 11			
	(*c*) Apparatus for Laboratories, etc.,	321 18 1			
	(*d*) Class Expenses,	1,902 7 7			
			2,611	12	3
XIV.	Printing, Stationery, and Advertising,		966	2	6
XV.	Chapel,		14	18	10
XVI.	Bursaries,		192	5	7
XVII.	Public Burdens, Taxes, etc. (including £21 to Glasgow Police),		986	11	1¼
XVIII.	Taxes, Repairs on Buildings, Lighting, Heating, Service, etc., at Queen Margaret College,		1030	18	6
XIX.	Students' Representative Council,		37	0	4
XX.	Miscellaneous,		104	10	7
			£63,672	8	5¾
	Surplus for 1901-1902,		101	1	1
			£63,773	9	6¾

CLASS FEES.

I Faculty of Arts—						
Humanity,	£800	2	0			
Greek,	392	14	0			
English,	763	7	0			
French.	165	18	0			
German,	61	19	0			
Hebrew,	192	3	0			
Logic,	567	0	0			
Moral Philosophy,	617	8	0			
Political Economy,	236	5	0			
Education,	422	2	0			
Philosophy of Law,	0	0	0			
Mathematics,	915	12	0			
Natural Philosophy,	567	0	0			
Chemistry,	235	4	0			
Botany,	61	19	0			
Zoology,	32	11	0			
Astronomy,	2	2	0			
History,	362	5	0			
Constitutional Law,	85	1	0			
Roman Law,	137	11	0			
				£6.618	3	0
II. Faculty of Science—						
Political Economy,	£3	3	0			
Astronomy,	14	14	0			
Engineering,	906	3	0			
Naval Architecture,	138	12	0			
Geology,	68	5	0			
Mathematics,	316	1	0			
Natural Philosophy,	608	9	6			
Chemistry,	641	18	0			
Botany,	78	15	0			
Zoology,	31	10	0			
Physiology,	37	16	0			
Anatomy,	40	19	0			
				2,886	5	6
III. Faculty of Medicine—						
Botany,	£754	19	0			
Zoology,	531	6	0			
Physics,	360	3	0			
Chemistry,	805	7	0			
Anatomy,	1,590	15	0			
Physiology,	673	1	0			
Materia Medica,	674	2	0			
Pathology,	760	4	0			
Forensic Medicine,	439	19	0			
Carry forward,	£6,589	16	0	£9,504	8	6

Brought forward,				£9,504	8	6
Faculty of Medicine—*continued.*	£6,589	16	0			
Surgery,	808	10	0			
Clinical Surgery,	99	15	5			
Practice of Medicine,	350	14	0			
Clinical Medicine,	135	11	8			
Midwifery,	571	4	0			
Insanity,	279	6	0			
				8,834	17	1
IV. Faculty of Law—						
Law,	£340	4	0			
Conveyancing,	252	0	0			
Constitutional Law and History,	58	16	0			
Civil Law,	67	4	0			
Jurisprudence,	40	19	0			
Public International Law,	40	19	0			
International Private Law,	28	7	0			
Political Economy,	0	0	0			
Forensic Medicine,	40	19	0			
Mercantile Law,	151	4	0			
				1,020	12	0
V. Faculty of Theology—						
Divinity,	£157	10	0			
Church History,	107	2	0			
Biblical Criticism,	103	19	0			
Hebrew (see under Faculty of Arts),		—				
				368	11	0
VI. Non-qualifying Classes,				602	0	0
				£20,330	8	7
Deduct Fees returned,				22	14	6
				£20,307	14	1

APPENDIX—I.

LIST OF MEMBERS

INCLUDED IN

THE REGISTER

OF

THE GENERAL COUNCIL

FOR THE YEAR COMMENCING 1*st JANUARY*, 1903,

WITH ABBREVIATED ADDRESSES, ETC.

N.B.—So far as information has been available down to the time of publishing the lendar, addresses, etc., have been corrected, and names of deceased Members removed. embers are requested to intimate to the Registrar any change of designation (*i.e.*, ofession or calling), or of permanent address. Representatives of deceased Members are so requested to make intimation, in order that the names of such Members may be moved.

---

bbott, John C., M.B., C.M., 159 Lichfield rd., Aston, Birmingham
bdurahman, Abdullah, M.B., C.M., Cape Town, S. Africa
bercrombie, Peter H., M.D., C.M., 10 Coburg place, London, W.
bercrombie, Ralph, M.A., minister, Goole
bernethy, Wm., M.A., tch., Kirkhill, Penicuik
ckland, Miss Dorothy, M.A., stud., 80 Langside av., Glasgow
dam, Alex., M.B., C.M., Glasgow
dam, Basil J., M.B., C.M., Beaufort, Victoria
dam, David S., B.D., minister, 42 Margaret st., Greenock
dam, Hector M., B.D., min., 20 Hamilton pl., Aberdeen
dam, Henry H., M.A., tch., 8 George st., Paisley
dam, Jas., M.A., tch., 11 Montague st., Glasgow.
dam, James, M.A., M.D., C.M., Hamilton
dam, James, M.B., C.M., 60 Causeyside, Paisley
dam, James, LL.B., stud., Castlehead, Paisley
dam, James A., M.A., min., North U.F. Manse, Ellon
dam, John, M.B., C.M., 2 N. Smithhills, Paisley
dam, John, M.B., C.M., 1 Caroline st., Forres
dam, John E., M.B., C.M., Westgrove, Kilnhurst, Rotherham
dam, John W., M.B., C.M., 6 Crown ter., Aberdeen
Adam, Matt. A., B.Sc., eng., 18 Southampton bdgs., London
Adam, Peter, B.D., min., Alford, Aberdeen
Adam, Robert H., M.A., M.D., C.M., 125 Newport st., Bolton
Adam, Thomas, M.A., minister, Cumbernauld
Adam, Thomas, M.A., stud., Westgrove, Kilnhurst
Adam, Thos. B., M.D., C.M., 37 Church st., Brechin
Adam, William J., M.B., C.M., 138 Acre lane, London, S.W.
Adam, Wm. T., M.B., C.M., 48 London rd., Carlisle
Adams, Geo. S., M.A., stud., Gilbertfield, Hamilton
Adams, Jas. A., M.D., C.M., 5 Woodside cr., Glas.
Adams, John, M.A., B.Sc., Professor, 23 Tanza rd., Hampstead, London, N.W.
Adams, John, B.D., min., Inverkeillor, Arbroath
Adams, John, M.B., C.M., 1 Queen's cr., Glasgow
Adams, John E., B.D., min., 16 Albert st., Aberdeen
Adams, Miss Martha, M.B., Ch.B., Gilford, Co. D'n
Adamson, Jas., M.D., Hetton-le-Hole, Fencehouses
Adamson, James, M.A., minister, Maree, N.S.W.
Adamson, Kilgour, M.B., C.M., Rectory, Armoy
Adamson, Wm. F., M.A., minister, Galashiels
Addie, John, M.A., min., Wilson Church, Perth
Affleck, John, M.A., D.Sc., Inspector of Chemical Works, Woolton
Agnew, Alex. P., M.B., C.M., Padiham, Lancs.
Agnew, Jas. F., M.B., C.M., Erin st., Richmond, Melbourne
Agnew, James M., minister, Longhope, Orkney
Agnew, Rbt. R., M.A., tch., 11 Hopetoun pl., Glas.
Aiken, James, M.A., assist. min., Elmwood, Motherwell
Aiken, James, M.A., writer, Dalmoak
Aiken, John B., M.A., writer, Dalmoak
Aikman, Chas. B., writer, 208 W. George st., Glas.
Aikman, John, M.D., C.M., Queen's rd., Guernsey
Aikman, Mat., M.A., M.B., Ch.B., 39 Cecil st., H'lh'd.
Ainslie, Jas. L., M.A., stud., Kent's Bank, Grange-over-Sands, Lancs.
Ainsworth, Wm. T., M.B., C.M., Shipley, Yorks.
Aird, Alex. W., M.B., C.M., Newmilns
Aird, Miss Janet R., M.A., tch., 6 Eildon Villas, Mt. Florida
Aird, Robert, M.A., tch., Tarbert, Loch Fyne
Aird, Wm., M.A., tch., 6 Radnor st., Glasgow
Aitchison, Jas., B.Sc., eng., 3 Barone rd., Rothesay
Aitken, David, M.A., tch., Academy, Motherwell
Aitken, George, M.A., stud., Glenview, Kirkintilloch.

Aitken, George J., M.A., tch., York av., J'danhill
Aitken,Geo.R.,M.A.,min.,O.S.Manse,K'kint'loch
Aitken, James, M.A., minister, Valparaiso
Aitken, Jas., M.B., C.M., 15 Dalton sq., Lancaster
Aitken, Jas., M.B., C.M., High road, Ilford
Aitken, James A., M.B., C.M., 24 Abbotsford pl., Glasgow
Aitken, James R., M.A., min., Dunnington Manse, Alcester
Aitken,John,M.D.,Ch.B.,328 St.George's rd.,Glas.
Aitken, John, M.D., C.M., Buckhaven
Aitken, John R., LL.B., 2 Woodlands ter., Glasg.
Aitken, Patrick H., B.Sc., B.D., min., 13 Clarence Drive, Hyndland, Glasgow
Aitken, Robert, B.D., prob., Redhurst, Dalry
Aitken, Robert, B.L., writer, Mound pl., Edinb'gh
Aitken, Robt. E., C.A., 66 St.Vincent st., Glasgow
Aitken, Robert Y., M.D., C.M., Carsehead, Dalry, Ayrshire
Aitken,Thos.M.,B.Sc.,engr.,Netherlea,P'shields.
Aitken, Wm. B., M.B., C.M., James Town, S. Aust.
Aiton, Thomas, B.A., min., Livingston, Midcalder
Aiton, Wm., B.L., law agt., 190 W. George st., Glasgow
Alexander, Andw., M.A., surg., Blaydon-on-Tyne
Alexander, Arch., M.A., min., Spittal, Berwick
Alexander, Arch. B. D., M.A., min., Langbank
Alexander, Archibald S., M.D., C.M., 6 Sussex terrace, Plymouth
Alexander, Charles A., M.B., C.M., Denny
Alexander, David R., B.D., prob., Clarkfield, Partick
Alexander, Geo., M.B., Ch.B., 207 Caledonian rd., London, N.
Alexander, Gilchrist G., M.A., barr., 2 Plowden buildings, Temple, London, E.C.
Alexander, James, M.D., C.M., Galston
Alexander,John,M.A.,min.,Sandbank pl.,Partick
Alexander, John, M.A., minister, Pitcairn, Perth
Alexander, John B., M.A., min., Hawaiian Islands
Alexander, Robert, minister, Dunfermline
Alexander, Robt., M.A., stud., 49 Peebles st,, Ayr
Alexander, Sam., M.D.,C.M.,244 Paisley rd.,Ibrox
Alexander, Sam. P., M.D.,C.M., Kent rd., Southsea
Alexander, Thos., M.A., stu., 22 Atholl st., Perth
Alexander, Walter, M.A., min., F.C. manse, Kirkmaiden
Alexander, William H. M., M.B., C.M., Ugie Brae, Old Deer
Alexander, William, M.B., C.M., 10 Portland ter., Kilmarnock
Alexander, William M., B.Sc., B.D., M.D., C.M., 75 Armadale st., Glasgow
Alison, Sir Arch., Bart., K.C.B., LL.D., general, 93 Eaton place, London
Alison, Arthur, advocate, 3 Moray pl., Edinburgh
Alison, George, minister, Kilbarchan
Allan, Alex., M.A., tch., 29 Albert st., Coatbridge
Allan, Alex. S., M.B., Ch.B., 51 Brown st., N'milns
Allan, Arthur, M.A., minister, Manse, Fairlie
Allan, Arthur W., B.L., writer, Muirfield, Pollokshields
Allan, Chas., M.A., min., Duneira, Greenock
Allan, Geo.F., LL.B., writ., 6 Loudon ter., Hillhead
Allan, Henry, M.A., shipowner, 2 Park gns., Glas.
Allan, Jas., M.A., tch., 172 Perth road, Dundee
Allan, James Paul, M.D., Renfrew
Allan, James W., M.B., C.M., 18 India st., Glasgow
Allan, John, M.D., C.M., Johannesburg
Allan, John, M.A., surv. taxes, 16 Rillb'nk te Edinburgh.
Allan, John, M.B., C.M., Glenfield, Dumbarto
Allan, Robert, M.D., C.M., 6 Arran pl., Ardross
Allan, Wm., M.B., C.M., Gothic cottage, Govan
Allan, William, M.A., stud., 327 Duke st., Glasg
Allan, Wm., M.D., C.M.,37 Union st., Greenoc
Allan, Wm., B.Sc., C.E., Elderslie ho., Strathav
Allan, Wm. C., M.D., C.M., Klerksdorp, Transv
Allan, William C., M.A., min., Par. Ch., Bradfo
Allardice, Wm. C., M.D., C.M., N.S. Infirm., Stok on-Trent
Allardyce, John M., M.A., missionary, Pekin
Allen, Robt. H., M.B., C.M., 207 Gipsy la., Lond.,
Allen, Wm., M.B., C.M., 4 Castelnan gds., Lon
Allen, William B., M.B., 104 Peel ter., Glasgow
Allen, William E. L., M.B., C.M., Hawkshea Ambleside
Allison, Alexander, M.D., Loanhead, Midlothi
Allison, James, min., 308 Main st., Alexandria
Allison, Miss Jane M., M.A., tch., 8 Hampd ter., Glasgow
Allison, John D., LL.B., writer, Cartvale, Paisl
Alpine, George, B.D., minister, Dumbarton
Alston, Andrew, minister, Carluke
Alston, And., LL.B., law clerk, U.P. Manse, Carlu
Alston, Jas., M.B., Ch.B., 11 Sutherland st., Do'n
Anderson, Agnes J. (Mrs. John MacLaren), M. C.M., Oughtibridge, near Sheffield
Anderson, Alex., M.A., author, Boustead, Chrys
Anderson, Alexander R., M.A., tch., 16 Warren park crescent, Edinburgh
Anderson, Annie K. (Mrs. Robert Watson), M. C.M., 27 Greenville ter., Belfast
Anderson, Arch., B.D., prob., Post Office, Dalma
Anderson, Arthur R., M.B., C.M., Heart's C tent, Newfoundland
Anderson, David, minister, Ceres, Fife
Anderson, Francis, M.A., professor, Sydney
Anderson, Geo., B.D., min., Manse, Renfrew
Anderson, Harry A. P., M.A., stud., 12 Brigh place, Govan
Anderson, Harry C., M.B., C.M., Inverie, Knoyd
Anderson, Hugh S., M.A., student, 34 Burnba gardens, Glasgow
Anderson, Jas., M.A., tch., Cummertrees, An
Anderson, Jas., M.B., Poulton-le-Fylde, Lancash
Anderson, James F., M.A., writer, 137 St. Vinc street, Glasgow
Anderson, Jas. H., manuf., St. John's Wood, Lo
Anderson, James Wallace, M.D., C.M., 23 Wo- side place, Glasgow
Anderson, John, B.D., min., 72 Montgomery Kelvinside
Anderson, John, M.D., 1 New Cross rd., Lond., S
Anderson, John, M.B., C.M., Garfield, Cardro
Anderson, John, M.B., C.M., 8 Whitehill st., Gl
Anderson, John, M.A., M.B., C.M., 1 Ward t Sunderland
Anderson, John, M.A., stud., 25 Butterburn Hamilton
Anderson, John, M.A., prob., 1 Alford pl., Abe
Anderson, John, M.B., Ch.B., Arns Brae, Bears
Anderson, John, M.A., tch., 55 Jeffrey pl., N'wm
Anderson, John A., M.D., C.M., Stranraer
Anderson, John B. M., M.A., M.B., C.M., 42 La downe crescent, Glasgow

erson, John G., M.B., C.M., Asylum, Hartwood, Shotts
erson, John J. S., M.B., C.M., Early Braes, Shettleston
erson, Jn. L., M.B., C.M., 183 Renfrew st., Glas.
erson, John W., M.A., M.D., C.M., 1 St. James' Mansions, London, N.W.
erson, Jonathan, writer, 179 W. George st., Glas.
erson, Jonathan R., B.L., law-clerk, 131 W. Princes street, Glasgow
erson, Margt. L. (Mrs. John Ogilvie), M.A., Manse, Cumbernauld
erson, Matthew S., M.A., M.D., C.M., Glengarnock, Kilbirnie
erson, Norman C., LL.B., lawapp., 2 Florentine gardens, Hillhead, Glasgow
erson, Robert, M.D., C.M., 2 Oxford place, Shettleston
lerson, Robert, minister, Kilsyth
lerson, Robt. C., M.A., min., Greengairs, Airdrie
lerson, Robert H., manufacturer, St. John's Wood, London
lerson, Robt. P. R., M.A., stu., 112 High st., Dumbarton
lerson, Robert S. G., B.D., prob., Ontario
lerson, Sam., B.Sc., M.B., C.M., I.M.S., Punjaub
lerson, Thos., M.B., Ch.B., Heart's Content, Newfoundland
lerson, Thos., M.A., stud., 34 Dover st., Glas.
lerson, Thomas A. H., LL.B., writer, 14 Eton place, Glasgow
lerson, Thomas M'Call, M.D., professor, 9 The University, Glasgow
lerson, Thomas R., LL.B., student, 12 Brighton place, Govan
lerson, Wm., LL.B., writer, 121 West George st., Glasgow
lerson, William, minister, Fettercairn
lerson, Wm., J.P., 2 Strathearn pl., Edinburgh
lerson, William, min., Bridge-of-Allan
lerson, Wm., M.B., C.M., Shrublands, Leytonstone High rd., London, E.
derson, Wm., B.Sc., stu., 184 D'mbart'n rd., Glas.
derson, William C., M.A., D.Sc., University assistant, 2 Florentine gardens, Hillhead
derson, Wm. H., M.B., C.M., Birkenhead
derson, Wm. K., M.B., Ch.B., 21 Peel st., Partick
derson, Wm. S., M.D., C.M., Chapel-en-le-Frith
drew, Alexr., M.B., C.M., Barrow-on-Humber
drew, Alex., M.A., tch., 131 George st., Paisley
drew, Jas., M.B., C.M., National Bk., Coatbridge
drew, Jas. G., M.B., C.M., 12 Woodside ter., Glas.
drew, Robert, M.A., minister, Walls, Lerwick
drew, Robert, B.D., minister, Glengarnock
drew, Wm. S., M.A., tch. Carriden Sch., Bo'ness
gus, Robert, missionary, Chryston
gus, Thos., M.B., C.M., 8 Bentinck st., Galston
man, Archibald J., B.L., writer, 112 W. Regent street, Glasgow
pleton, Henry, M.D., C.M., 22 Lower Seymour street, London, W.
buckle, John H., M.D., C.M., Kilmarnock
chibald, Robt., M.A., stud., Carden, Fossoway
chibald, Wm., M.B., Ch.B., 82 Langside av., Glasgow
mitage, Wm., M.B., Ch.B., 64 Newton st., Greenock
Armour, Miss Helen M., M.A., stud., 14 Bruce rd., Glasgow
Armstrong, Geo. C., M.D., Blackrock, Dublin
Armstrong, Hugh, B.D., minister, Winchburgh
Armstrong, Thos., M.B., C.M., co. Anchor Line, Glasgow
Armstrong, Thos., M.A, stud., 15 Queen's ter. W., Glasgow
Armstrong, Wm. A. A., M.A., minister, 74 South street, Reading
Armstrong, Wm. B., M.B., C.M., Burnbrae, R'glen
Arncil, Loudon, M.A., tch., Mt. View, Coalburn
Arnot, Thomas, writer, 9 W. Regent st., Glasgow
Arnott, Hugh Y., B.D., min., Newburgh, Fife
Arnott, James, M.D., C.M., Brig. Surg. Lt. Col., Holland Ho., Murrayfield Edinburgh
Arnott, John, M.A., min., F. So. Manse, Stirling
Arnott, John T., B.D., prob., Kinloch, Blairgowrie
Arrol, Charles, M.D., C.M., Bankstown, Sheerness
Arroll, Walter, LL.B., stud., 2 Northbank tr., Kelvinside, Glasgow
Arthur, David, M.D., C.M., 276 Uxbridge rd., Lond., W.
Arthur, Geo., M.B., Ch.B., West Parkhill, Airdrie
Arthur, Hugh, M.D., C.M., Fruitfield, Airdrie
Arthur, James, M.A., teacher, Largs
Arthur, Miss Minnie L., M.A., stu., 24 Royal cr., Glasgow, W.
Arthur, Robt. J., M.B., Ch.B., Low Bridge-of-Doon, Ayr
Ashcroft, Fra., M.A., missionary, 20 Westbourne terrace, Kelvinside
Ashurst, Fred., M.B., C.M., Hayfield, Derbysh.
Aspin, And. H., M.A., writer, 1 Ashton ter., Glasg.
Atkinson, John P., M.D., Saffron Walden, Essex
Atkinson, Miss Mabel, M.A., 18 Merchiston gdns., Edinburgh
Auchinachie, Alex., M.A.. tch., Main st., Kilwin'ng.
Auchinachie, Peter, M.A., teacher, W. Bridge st., Falkirk
Auld, Alex. G., M.D., C.M., 31 Manchester st., Lond.
Auld, Archibald, M.B., C.M., Snaith, Yorks.
Auld, Charles, M.D., C.M., Kilwinning
Auld, Robt. W., M.B., Ch.B., Holmwood, Kilwinn'g
Auld, Wm., M.A., stud., 30 Willowbank st., Glas.
Auld, Wm., B.D., minister, Carnock, Dunfermline
Auld, Wm., M.B., C.M., Lewins, Wimborne, Dorset
Austin, Jas., LL.B., stud., 13 Sutherland av., Pollokshields.
Austin, Richard, M.D., 5 Cullenswood terrace, Ranelagh, Dublin

Babington, Matt., B.D., prb., Abbeygate, Kilwin'ng
Babtie, Wm., M.B., Strathleven pl., Dumbarton
Badenoch, George Roy, LL.D., min., The Croft, Maybury Hill, Woking
Bailey, William E., M.B., C.M., Throstle grove, Stockport
Baillie, David, M.A., minister, Beith
Bain, Alex., B.Sc., C.E., 102 S. Portland st., Glasg.
Bain, Arch. W., M.A., tch., Univ. Coll. School, Gower st., London
Bain, David, M.A., teacher, Carnoustie
Bain, Geo., M.A., tch., 235 Onslow drive, Glas.
Bain, Jas., M.A., stud., 42 U. Bridge st., Stirling
Bain, Jas. A., M.A., stud., 55 Cumberland st., W., Glasgow
Bain, James G., M.B., C.M., Arnwood, Southsea

Bain, John, M.B., C.M., Burnside, Boarhills
Bain, Jos., Record ed'r, 3 Heathfield, Lond., S.W.
Bain, Richard W. K., M.A., adv., 72 Hamilton pl., Aberdeen
Bain, Robert, M.A., tch., 11 Carnarvon st., Glasgow
Bainbrigge, Wm. P. Y., M.B., C.M., 9 Hanover ter., Ladbroke sq., London
Baird, And., B.D., minister, Broughton, Peebles
Baird, Miss Annie A., M.A., stud., 65 Bank st., Hillhead.
Baird, David, M.A., tch., Hunter Villa, Gourock
Baird, James W., B.D., prob., Schoolho., Strone
Baird, John, B.D., minister, Helensburgh
Baird, John, M.B., C.M., Naauwpoort, Cape Col.
Baird, John, M.B., C.M., 3 Wilton gdns., Glasgow
Baird, Robert, writer, Middle Temple, London
Baird, Sam. J., M.B., C.M., Eglinton, Londonderry
Baird, Thos., M.A., teacher, 4 Yarrow gardens, Glasgow
Baird, Wm., M.A., tch., 6 Glen view, Paisley
Baird, Wm. Jas., M.D., 14 College ter., Brighton
Baird, Wm. S., M.B., C.M., Otautau, N.Z.
Balderston, James C., minister, West Kilbride
Balfour, Arthur J., LL.D., M.P., 4 Carlton gardens, London
Balfour, David D., sheriff-substitute, Glasgow
Ballantine, James, M.D., Catrine
Ballantyne, Arthur J., M.D., Ch.B., 11 Sandyford place, Glasgow
Ballantyne, George, M.A., student, Market place, Auchinleck
Ballantyne, James T., M.B., C.M., Over Darwen, Lancashire
Ballantyne, Robt. F., M.B., Ch.B., 44 Herriet st., Pollokshields, Glasgow
Ballantyne, William, min., Church road, Canonbury, London
Ballantyne, Wm. H., B.Sc., eng., 111 Hatton gdn., London, E.C.
Ballardie, Sam. W., M.A., tch., 1036 Pollokshaws road, Shawlands
Bamber, Henry, M.B., C.M., 28 Washington ter., N. Shields
Bankhead, Wm. T., M.A., min., Airliewood, Ibrox
Bankier, Alex. M., M.D., C.M., 46 Waterloo rd. N., Wolverhampton
Bankier, Geo. H. S. J., M.D., Ashton-under-Lyne
Banks, Alex., M.A., min., Braehead, Carnwath
Banks, Alex. G., M.B., Ch.B., Redhurst, Dunoon
Banks, Charles, M.D., C.M., Ind. Med. Dep., Bengal
Banks, John, M.B., C.M., George terrace, Dunoon
Banks, Robt. M., M.B., C.M., Rosemount, Lanark
Bannatyne, Alex., M.A., minister, Lochgilphead
Bannatyne, And. S., M.A., clergyman, Dunton Bassett, Lutterworth
Bannatyne, Chas., M.B., C.M., Luing, by Oban
Bannatyne, Dug. J., Patontown, New Jersey
Bannatyne, Gilbert A., M.D., C.M., 21 Circus, Bath
Bannatyne, John, minister, Takata, N.Z.
Bannatyne, Mark, writ., 145 W. George st., Glasgow
Bannerman, Charles, M.A., corn factor, 27 Blythswood square, Glasgow
Bannerman, George G., M.B., C.M., 10 Oliver cr., Hawick
Barber, Wm., M.A., of Tererran, Moniaive
Barbour, Gavin, M.B., Ch.B., Mansfield, Darvel
Barbour, Jas. M., M.B., C.M., Swiss villa, Swanage
Barbour, John H., B.Sc., nav. arch., Elmba Dumbarton
Barbour, W., M.B., C.M., 32 Hayburn cres., Par
Barclay, And. A., M.B., Ch.B., Forest ho., Ba
Barclay, David Y., M.A., tch., 133 Mordaunt Glasgow
Barclay, James, LL.B., attorney, Brooklyn,
Barclay, James, M.A., D.D., minister, Montr
Barclay, Jas. O., M.B., Ch.B., Craigie view, marnock
Barclay, John, M.A., D.D., minister, Toront
Barclay, Robt. D., B.Sc., eng., Union Club, E
Barclay, Robt. F., LL.B., writ., 21 Park ter.,
Barclay, Thomas, M.A., min., Tainanfoo, For
Barclay, Thos., M.A., adv., 1 Ainslie pl., Edi
Bardwell, Foster H., M.A., minister, Rose st Edinburgh
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APPENDIX II.

EXTRA-ACADEMICAL TEACHING.

N.B.—Every application for recognition must be accompanied by a payment to the University Factors, Messrs. Hill & Hoggan, 194 Ingram Street, Glasgow, of a fee of £5 5s., to be placed to the credit of a fund for defraying the cost of investigation by experts of the fitness of the teacher applying, and of the accommodation, apparatus, and teaching appliances at the disposal of the teacher.

The following regulations for the recognition of Extra-Academical Teaching under Ordinances Nos. 14, 12, and 23, were adopted by the University Court on 14th June, 1894 :—

IN THE CASE OF INDIVIDUAL EXTRA-ACADEMICAL TEACHERS.

I. Every application shall be made to the Secretary of the University Court and shall supply the following information :—

(*a*) The registrable or other qualification or qualifications of the applicant.

(*b*) A statement of his opportunities of studying the subject and the length of time devoted thereto.

(*c*) A statement of his experience in teaching the subject.

(*d*) A note of any of his published articles or works on the subject.

(*e*) The appointments which he holds as a teacher of the subject in which he requests recognition, and a statement whether the course for which recognition is sought has previously been conducted by him, and if so, for how long. If the applicant is a teacher in a Medical School, College of Science, or other similar Institution, the most recent issue of the Calendar of such School, College, or Institution, should be forwarded.

(*f*) The number of meetings to which the course extends, whether each meeting is for one hour or longer, and a statement of the proportion of the course to be devoted to lectures, practical demonstrations, examinations and tutorial work. In the case of a practical course, information should be given as to the manner of conducting it, the number of examinations, oral or written, and whether or to what extent lectures or tutorial work form part of the course. It should also be stated whether, besides the teacher for whom recognition is sought, assistants or demonstrators take part in conducting the course (whether systematic or practical), and, if so, their number, qualifications, and the extent to which they take part in conducting the course. A syllabus of the subjects treated in the course and of the books proposed for the use of students should also be sent in every case.

(*g*) The hour or hours at which the course is conducted.
(*h*) The accommodation, apparatus, and teaching appliances provided for the class.
(*i*) The teaching or examining bodies which have recognized his course.

II. In the case of an applicant conducting courses in Glasgow or its neighbourhood an inspection shall be made of his accommodation and appliances for teaching.

III. Every Extra-Academic Teacher in Glasgow whose course has been recognized under Ordinance No. 12 or Ordinance No. 14 shall, at the commencement of each session, call the attention of his whole class to the provisions of the Ordinance as to enrolment and payment of fee at the University by all students who desire afterwards to graduate there; he shall also call attention to the University requirements as to preliminary examination (more stringent in the case of medical students than the minimum required by the General Medical Council); and shall advise any students looking forward to a University degree to procure from the Matriculation Office a copy of the syllabus of regulations applicable to their course.

IV. Every recognized Extra-Academical Teacher shall annually within one month of the close of the session furnish the University Court with a return of
(*a*) The number of students who have attended the recognized course or courses, in such manner as to qualify *pro tanto* for graduation in the University of Glasgow.
(*b*) Any change that may have been made in the accommodation or appliances provided.
(*c*) A statement showing, for the year next ensuing, the number of meetings to which the course extends, whether each meeting is for one hour or longer, and the proportion of the course to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of a practical course information should be given as to the manner of conducting it, the number of examinations, oral or written, and whether, or to what extent lectures or tutorial work form part of the course. It should also be stated whether, besides the recognized teacher, assistants or demonstrators take part in conducting the course (whether systematic or practical), and, if so, their number, qualifications, and the extent to which they take part in conducting the course. A syllabus of the subjects to be treated in the course, and of the books proposed for the use of students, should also be sent.

V. The certificate of attendance granted by Extra-Academical Teachers should in all cases state the number of lectures or meetings for practical instruction in the course, the number of occasions on which the student was present, the fee charged, and bear that the student has duly performed the work of the class.

VI. Every candidate not being a matriculated student attending the course of an Extra-Academical Teacher in Glasgow, recognized for the purposes of graduation in Medicine or Pure Science, must at the commencement of each year enrol his name in a book kept at the University for that purpose, paying a fee of the same amount as the matriculation fee, and having in respect thereof a right to the use of the University Library. (Ord. No. 14, § VIII. 5; Ord. No. 12, § V.)

VII. The fee for attendance for the purposes of graduation on the courses of instruction of an Extra-Academical Teacher in Glasgow shall not be less than the fee for the corresponding University Class. (Ord. No. 14, § VIII. 6; Ord. No. 12, § IV. 2; Ord. No. 23, § IV. 2.)

VIII. The Court will not in any case recognize for the purposes of graduation in Medicine the course of any teacher who teaches at the same time more than one of the subjects, except where the applicant is a professor or teacher of any endowed public college or institution, who, by the terms of his appointment, is required to teach more than one of the subjects, and in that case recognition can be granted in one subject only. (Ord. No. 14, § VIII. 7.)

IX. It is a condition of every recognition granted by the Court that it can be withdrawn or suspended at any time if the Court see fit.

X. The recognition of any teacher who fails to furnish the information required in terms of Regulation IV., or a sufficient explanation relative to such failure, or who has ceased for the period of two consecutive sessions to teach the subject in which he is recognized, shall *ipso facto* terminate.

IN THE CASE OF SCHOOLS OR INSTITUTIONS.

I. Every application shall be made to the Secretary of the University Court, and shall supply the following information:—

- (*a*) A statement of the number of teachers and a detailed syllabus of the curriculum courses proposed to be given, or, in the case of practical classes, information of a similar kind.
- (*b*) The number and duration of lectures proposed to be given and the number of examinations, whether written or oral, deemed necessary, or in the case of a practical class, information of a similar kind. It should also be stated whether assistants or demonstrators take part in conducting the courses (whether systematic or practical).
- (*c*) The hours of lectures.
- (*d*) The teaching or examining bodies which have already recognized the curriculum or certificate of the school or institution making application.
- (*e*) A statement as to the accommodation, apparatus, and appliances at the disposal of the teachers in the school or institution making application.
- (*f*) A note of the fees proposed to be charged.

II. The Court shall, if it thinks fit, cause an inspection to be made of the accommodation, apparatus, and teaching appliances provided by the school or institution making application.

III. Every recognized school or institution shall annually within one month of the close of the session furnish the University Court with a return of (*a*) The number of students who have attended the recognized school or institution in such manner as to qualify *pro tanto* for graduation in the University.

(*b*) Any change that may have been made in the accommodation or appliances provided.

(*c*) A statement showing, for the year next ensuing, the number of meetings to which the courses extend, whether each meeting is for one hour or longer, and the proportion of the courses to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of practical courses information should be given as to the manner of conducting them, the number of examinations, oral or written, and whether, or to what extent, lectures or tutorial work form part of the courses. It should also be stated whether assistants or demonstrators take part in conducting the courses (whether systematic or practical).

IV. The certificates of attendance granted by recognized schools or institutions should in all cases state the number of lectures or meetings for practical instruction in the courses, the number of occasions on which the student was present, the fees charged, and bear that the student has duly performed the work of the classes.

V. The fees for attendance for the purposes of graduation on the courses of instruction in a recognized school or institution shall not be less than the fees for the corresponding University classes. (Ord. No. 14, § VIII. 6; Ord. No. 12, § IV. 2; Ord. No. 23, § IV. 2.)

VI. It is a condition of every recognition granted by the Court that it can be withdrawn or suspended at any time if the Court see fit.

LIST OF EXTRA-ACADEMICAL TEACHERS.

List of Extra-Academical Teachers recognized by the University Court of the University of Glasgow, for the purpose of Graduation in Medicine and Science, in terms of Ordinances of the Universities Commissioners (1858 and 1889), the names of those who are recognized for Graduation in Science being printed in *italics*.

19 April, 1876,	Dr. James Gow Black, Otago,	*Chemistry.*
,,	Miller Coughtrey, M.B., Otago,	*Anatomy.*
7 Nov., 1876,	John Dougall, M.D., Glasgow,	*Materia Medica.*
12 Sept., 1877,	A. M. Buchanan, M.D., Glasgow,	*Anatomy.*
21 Dec., 1880,	William Craig, M.D., Edinburgh,	*Materia Medica and Therapeutics.*
,,	John Barlow, M.D., Glasgow,	*Physiology.*
24 May, 1881,	Byrom Bramwell, M.D., Edinburgh,	*Practice of Medicine.*
22 July, 1885,	Reginald W. Phillips, B.A., B.Sc., University Coll., Bangor,	*Botany.*
28 April, 1886,	A. Smithells, B.Sc., Yorkshire College, Leeds,	*Chemistry.*

4 Oct., 1887,	Claud M. Thompson, University College, Cardiff,	*Chemistry.*
,,	W. Newton Parker, University College, Cardiff,	*Zoology.*
27 Feb., 1890,	James Robertson Watson, M.A., Glasgow,	*Chemistry and Practical Chemistry.*
,,	Philip J. White, M.B., University College, Bangor,	*Zoology.*
5 Jan., 1892,	T. W Bridge, M.A., Mason Science Coll., Birmingham,	*Zoology.*
28 April, 1892,	James Swanson, M.A., M.B., C.M., St. Mungo's Coll., Glasgow,	*Botany.*
23 Feb., 1893,	*James Blyth, M.A.*, Technical College, Glasgow,	*Physics.*
,,	J. W. Carr, M.A., University College, Nottingham,	*Botany.*
27 April, 1893,	*G. G. Henderson, D.Sc.*, Technical College, Glasgow,	*Chemistry.*
20 July, 1893,	J. Berry Haycraft, M.D., University College, Cardiff,	*Physiology.*
9 Nov., 1893,	A. P. Aitken, D.Sc., Edinburgh,	*Chemistry.*
,,	J. F. King, Edinburgh,	*Chemistry.*
,,	J. B. Readman, D.Sc., Edinburgh,	*Practical Chemistry.*
,,	D. N. Paton, M.D., Edinburgh,	*Physiology and Practical Physiology.*
,,	A. Bruce, M.D., Edinburgh,	*Pathology and Practical Pathology.*
,,	F. W. N. Haultain, M.D., Edinburgh,	*Midwifery.*
,,	R. M. Murray, M.B., Edinburgh,	*Midwifery.*
,,	G. A. Gibson, M.D., Edinburgh,	*Practice of Medicine.*
,,	R. W. Philip, M.D., Edinburgh,	*Practice of Medicine.*
14 Nov., 1893,	R. B. Ness, M.A., M.B., Anderson's College, Glasgow,	*Materia Medica and Therapeutics, and Practical Pharmacy.*
,,	Dawson Turner, M.D., Edinburgh,	*Physics.*
8 Feb., 1894,	J. W. B. Hodsdon, M.D., Edinbro',	*Surgery.*
,,	H. E. Clark, M.R.C.S., Glasgow,	*Surgery.*
8 Mar., 1894,	John S. M'Laren, M.B., C.M., Edin.,	*Surgery.*
14 June, 1894,	George T. Beatson, M.D., Glasgow,	*Surgery.*
,,	Francis M. Caird, M.B., C.M., Edin.,	*Surgery.*
,,	Alexander James, M.D., School of Medicine, Edinburgh,	*Practice of Medicine.*
,,	William Russell, M.D., School of Medicine, Edinburgh,	*Pathology and Practical Pathology.*
,,	Henry Alexis Thomson, M.D., Minto House, Edinburgh,	*Surgery.*
2 Aug., 1894,	George B. Todd, M.B., C.M., Anderson's College, Glasgow,	*Zoology.*

2 Aug., 1894,	Percy F. Frankland, Ph.D., B.Sc., F.R.S., Birmingham,	*Chemistry.*
13 Dec., 1894,	*R. Stanfield, A.R.S.M., A.M. Inst. C.E.*, Heriot WattColl., Edin.,	*Mechanical Engineering.*
,,	*John Gibson, Ph.D.*, Heriot Watt College, Edinburgh.	*Chemistry and Chemical Laboratory.*
14 Feb., 1895,	A. H. Trow, B.Sc., University College, Cardiff,	*Botany.*
,,	Malcolm Laurie, B.A., D.Sc., F.R.S.E., St. Mungo's College, Glasgow,	*Zoology.*
12 Dec., 1895,	Peter Bennett, Anderson's College Medical School, Glasgow,	*Physics.*
9 Jan., 1896,	Charles Workman, M.D., Royal Infirmary, Glasgow,	*Pathology and Practical Pathology.*
18 June, 1896,	John Edgar, M.A., B.Sc., M.B., Anderson's College Medical School, Glasgow,	*Midwifery.*
,,	*George A. Gibson, M.A.*, Technical College, Glasgow,	*Mathematics.*
9 July, 1896,	*Alexander MacLay, B.Sc., C.E.*, Technical College, Glasgow, -	*Engineering Drawing and Design.*
12 Nov., 1896,	John Lindsay Steven, M.D., Glasg.,	*Practice of Medicine.*
,,	*Francis G. Baily, M.A.*, Heriot Watt College, Edinburgh,	*Physics and Electrical Engineering.*
6 May, 1897,	Richard J. A. Berry, M.D., F.R.C.S.E., New School of Medicine, Edinburgh,	*Anatomy.*
9 June, 1898,	John Carswell, L.F.P.S.G., L.R.C.P.E., Anderson's College Medical School, Glasgow,	*Mental Diseases.*
9 June, 1898,	J. R. Whitaker, M.B., Surgeon's Hall, Edinburgh,	*Anatomy and Practical Anatomy.*
10 Nov., 1898,	Hugh Galt, M.B., C.M., St. Mungo's College,	*Forensic Medicine and Public Health.*
,,	Robert A. Fleming, M.D., School of Medicine, Edinburgh,	*Practice of Medicine.*
13 July, 1899,	A. Francis Dixon, D.Sc., University College of South Wales, Cardiff,	*Anatomy and Practical Anatomy.*
,,	A. L. Selby, M.A., University College of South Wales, Cardiff,	*Physics.*
,,	D. R. Paterson, M.B., University College of South Wales, Cardiff,	*Practical Pharmacy.*
9 Nov., 1899,	Theodore Shennan, M.D., School of Medicine, Edinburgh,	*Pathology.*
26 April, 1900,	H. Harvey Littlejohn, M.A., M.B., B.Sc., Edinburgh,	*Medical Jurisprudence and Public Health.*

26 April, 1900.	Carstairs C. Douglas, B.Sc., M.D., Anderson's College Medical School, Glasgow,	*Medical Jurisprudence and Public Health.*
10 July, 1900,	*J. C. Beattie, D.Sc.*, South African College, Cape Town,	*Natural Philosophy.*
,,	*P. D. Halm, Ph.D.*, South African College, Cape Town,	*Chemistry.*
8 Nov., 1900,	R. S. Thomson, B.Sc., M.D., Anderson's College Medical School, Glasgow,	*Practice of Medicine.*
14 Mar., 1901,	*John W. Paterson*, West of Scotland Agricultural College,	*Agricultural Chemistry.*
,,	*A. N. M'Alpine*, West of Scotland Agricultural College,	*Agricultural Botany.*
,,	*J. J. F. X. King*, West of Scotland Agricultural College,	*Agricultural Entomology.*
,,	*John R. M'Call*, West of Scotland Agricultural College,	*Veterinary Hygiene.*
3 Oct., 1901,	Alexander Macphail, M.D., St. Mungo's College,	*Anatomy.*
14 Nov., 1901,	T. K. Monro, M.A., M.D., St. Mungo's College,	*Practice of Medicine.*
1 May, 1902,	Marion T. Newbigin, D.Sc., Medical College for Women, Edinburgh,	*Zoology.*
10 July, 1902,	*Harry Bamford, M.Sc.*, West of Scotland Agricultural College,	*Agricultural Engineering.*
11 Dec., 1902,	*Daniel Burns*, Technical College, Glasgow,	*Geology.*
18 June, 1903,	*Magnus Maclean, M.A., D.Sc.*, Glasgow and West of Scotland Technical College,	*Electrical Engineering.*
,,	*W. H. Watkinson, M.I.M.E.*, Technical College, Glasgow,	*Mechanical Engineering.*
,,	*John G. Longbottom, A.R.C.S.*, Technical College, Glasgow,	*Civil and Mechanical Engineering.*
,,	Hamilton C. Marr, M.D., F.F.P.S.G., St. Mungo's College, Glasgow,	*Insanity.*
,,	James H. Nicoll, M.B., F.F.P.S.G., Anderson's College Medical School, Glasgow,	*Surgery.*
,,	Archibald A. Scot Skirving, C.M.G., M.B., M.R.C.S. (Eng.), F.R.C.S. (Edin.), 27 Nicolson Square, Edinburgh, and School of Medicine of the Royal Colleges, Edinburgh,	*Surgery.*

And the ordinary Physicians and Surgeons of any General Hospital in the United Kingdom which accommodates not fewer than eighty patients, and possesses a distinct staff of Physicians and Surgeons. (See Ordinance No. 14, Section VII. (5).)

LIST OF INSTITUTIONS OR SCHOOLS.

List of Schools or Institutions recognized by the University Court of the University of Glasgow, for the purpose of Graduation in Medicine, Law, Science, and Theology, in terms of Ordinances of the Universities Commission (1889).

14 Nov., 1895,	London School of Medicine for Women, in respect of the following courses: *Chemistry* (*Systematic and Practical*), *Anatomy* (*Systematic and Practical*), *Physiology* (*Systematic and Practical*), *Practical Pharmacy*, *Practical Pathology*, *Medical Jurisprudence and Public Health*, *Clinical Surgery*, *Clinical Medicine*, *Practical Midwifery*, *Mental Diseases*, *Out-Practice or Dispensary and Vaccination.*
23 Mar., 1896,	Owen's College, Manchester.
,,	University of New Zealand. If a candidate for the First Professional Examination in this University has obtained a Degree in Science or in Arts in the University of New Zealand, granted after a course of study and an examination in Botany, Zoology, Physics, or Chemistry, such candidate is exempted from the examination in such subject or subjects. (Ordinance No. 54, Section IV.)
23 July, 1896,	Universities of Oxford, Cambridge, and Dublin, and the four Inns of Court, London. The above are recognized for the purposes of Graduation in Law under Ordinance No. 39 [General No. 11.—Regulations for the Degree of Bachelor of Laws (LL.B.)] and subject to Section II. thereof.
11 Mar., 1897,	Glasgow Eye Infirmary.
10 Nov., 1898,	University of Louvain. This University has been approved by the University Court as a University in which Courses for the four subjects represented in the First Science Examination may be taken and reckoned *pro tanto* under Ordinance No. 23, Section IV. (2).
13 April, 1899,	Harvard University, Boston, U.S.A. Approved under Ordinance No. 23, Section IV.
12 June, 1902,	Westminster College, Cambridge. Recognized under Ordinance No. 63, Section I.

APPENDIX III.

UNIVERSITY SOCIETIES.

GLASGOW UNIVERSITY UNION.

At a Meeting of Students and Graduates, held on the 14th day of February, 1885, it was unanimously resolved to establish a Glasgow University Union. A sum sufficient to erect a building for this purpose having been offered to the Senate by John M'Intyre, Esq., M.D., Odiham, Hampshire, and the Senate having accepted this gift, Articles of Constitution were drawn up by a Committee of Students and Graduates, and received the approval of the Senate, the Donor, and of the Students' Representative Council. A further sum of £12,000 was raised by the Union Bazaar of 1889, and devoted to furnishing and endowing the building. In 1893, to meet the increasing membership, the building was largely extended at a cost of £2800. The Union is governed by a Board of Directors, appointed by the Committee of Management which is elected annually at the General Meeting of the Members.

Objects.—The objects of the Union are to provide Students with the comforts and conveniences of a Social Club, to hold debates, and to form a centre to which the various University Societies may be affiliated. The Buildings comprise a Debating Hall, a Dining Hall, Reading and News Rooms, Billiard and Smoking Rooms, Committee Rooms, Lavatories, etc.

Membership.—The Members of the Union are Ordinary Members or Life Members.

Ordinary membership of the Union is open to all matriculated Students and all former Students of the University, and all Medical Students of Glasgow whose names are enrolled in the Extra-mural Album of the University, on payment of an Annual Subscription of Seven Shillings and Sixpence. Students may join for the summer Session only, on payment of Four Shillings.

All matriculated Students and former Students of the University may, on payment of the sum of Three Pounds Three Shillings, become Life Members of the Union.

President—C. M. Drew, M.A.

Vice-President—James J. MacLehose, M.A.

Hon. Secretary—D. J. M'Leish, M.A., B.Sc., The Union.

Hon. Treasurer—Allan F. Baird.

Assistant Secretary and Treasurer—J. I. Greig, M.A.

Librarian—Donald Carswell.

Convener of Games Committee—Allan Douglas.

Board of Directors—The Office-bearers; A. J. Fleming, LL.B., and J. W. Peck, M.A. (former students); P. Spens, M.A., and D. A. Dick (students).

Former Presidents of the Union.

1890.	John H. Harley, M.A.
1890-91.	Robert G. Bell, M.D.
1891-92.	John Paterson, M.A., M.B.
1892-93.	F. A. Macquisten, B.L.
1893-94.	Joshua Ferguson, M.A., M.B.
1894-95.	Joshua Ferguson, M.A., M.B.
1895-96.	J. A. Stokes Little, M.A.
1896-97.	W. C. Henderson, M.A., B.Sc. (resigned Oct., 1896).
1896-97.	A. M. Scott, M.A.
1897-98.	John C. Monteith, M.A.
1898-99.	William F. Smillie, M.A.
1899-1900.	George F. Buchan, M.B., Ch.B.
1900-01.	Ivy M'Kenzie, M.A.
1901-02.	Andrew F. Bell.
1902-03.	G. D. Valentine, LL.B.

THEOLOGICAL SOCIETY.

The object of the Society is to discuss, by means of essays and debates, theological and ecclesiastical questions. The membership of the Society is open to all Students attending the Divinity Hall of the University; but all matriculated Students in faculties other than the Faculty of Divinity are eligible for extraordinary membership.

Office-Bearers for 1903-4.

Honorary President—The Right Rev. the Bishop of Ripon, D.D.

President—W. N. Monteith, B.A.

Vice-President—George Muir, M.A.

Secretary—John M. Hamilton, M.A., 79 North Street, Alexandria.

Treasurer—John Robertson, M.A.

Committee.

Thomas Low, M.A.	John R. Spence, M.A.
A. S. Dunlop, M.A.	James Bain, M.A.

(With two students of the first year in Divinity to be elected in November.)

GLASGOW UNIVERSITY MEDICO-CHIRURGICAL SOCIETY.

(Founded 1802.)

This Society has as its principal object the prosecution of medical study by essays, debates, lantern and microscopical demonstrations, and during the summer by visits to Institutions and other places of interest to medical students.

All medical Students and medical Graduates of less than one year's standing are eligible for Ordinary Membership, on payment of the annual subscription of One Shilling and Sixpence.

Meetings of the Society are held in the Union on Friday evenings during the winter session.

Office-Bearers for 1903-4.

Honorary President—Sir William Macewen, M.D., LL.D., F.R.S., Hon. F.R.C.S.

President—Robert T. Leiper. *Vice-President*—Spencer Mort.

Secretaries.

Corresponding—E. M. Watkins, The Union.

Minute—A. B. Aitken.

Treasurer—T. L. Craig. *Demonstrator*—J. S. Dunn, M.A.

Librarian—A. W. Anderson.

Committee.

W. B. M. Martin.	W. J. Rutherford.
D. Blackley.	W. A. Campbell.
D. G. Hunter.	H. Morton.
P. Maguire.	J. Steedman.

(With two Students of the first year in Medicine to be elected in November.)

Books are given out at the ordinary meetings, or on written application to the Librarian.

DIALECTIC SOCIETY.

The Society meets weekly in the Union Debating Hall during the Session for the discussion of Literary, Philosophical, and Political subjects.

All matriculated men Students are eligible for Ordinary Membership, which is obtained by payment of the Annual Subscription of One Shilling and Sixpence. (Members of the Union One Shilling.)

Honorary President.

Dudley J. Medley, M.A., Professor of History.

President—Weir Grieve.

Vice-Presidents.

Senior—Wylie R. Macintyre. *Junior*—Douglas Wilson.

Secretaries.

Senior—W. Crawford Grieve, The Union. *Junior*—E. H. Jones.

Treasurer—J. R. Haldane, M.A. *Macer*—Philip L. O. Guy.

General Board.

Geo. J. Spreull, M.A.
James Menzies.
C. J. Vincent.
John G. Watson.
Cosmo A. Ralston.
David B. Mungo, M.A.
James S. Rankin.
R. C. Young.

GLASGOW UNIVERSITY ORIENTAL SOCIETY.

(Instituted 1880.)

The object of the Society is the study of the languages and literatures of the East.

All Students of Oriental languages are eligible for election to the membership.

The Society meets twice a year—in the months of April and October.

Office-Bearers.

President—Rev. Professor James Robertson, D.D.

Vice-President—Rev. R. B. Pattie, B.D.

Corresponding Secretary—Rev. James Young, B.D.

Recording Secretary—Rev. George Anderson, B.D.

Treasurer—Rev. Robert Gardner, B.D.

GLASGOW UNIVERSITY ALEXANDRIAN SOCIETY.

This Society was formed in January, 1887. It has for its chief object the discussion of questions connected with the literatures of Ancient Greece and Rome. The membership is open to Members of the University. Any distinguished Scholar or any Member of the University of five years' standing, or any person officially connected with the University, is eligible for Honorary Membership.

Office-Bearers.

Honorary Presidents.

Professor G. G. Ramsay, LL.D. | Professor J. S. Phillimore, M.A.
Professor W. A. Raleigh, M.A.

President—D. Rankin, M.A.

Vice-Presidents { J. L. Morison, M.A.
A. Patrick.

Secretary—J. R. Brown, The Manse, Govan.

Treasurer—J. Ballantyne.

Committee.

R. Burns. | R. M. Morrison.
C. G. G. Helme. | J. Paterson.
A. Shepherd.

GLASGOW UNIVERSITY PHILOSOPHICAL SOCIETY.

(Instituted 1887.)

This Society was instituted for the promotion of Philosophical Discussion and Investigation. It meets on alternate Wednesday Evenings at Eight o'clock during the Winter Session, in the Union. Ordinary Membership is open to all students who have attended or are attending Philosophical Classes in any University. The annual subscription is one shilling for those who join through the Union, and one shilling and sixpence for those who do not.

Office-Bearers for Session 1903-4.

Honorary President—Professor Émile Boutroux.

Honorary Vice-Presidents.

The Principal,
Professor Jones, LL.D.,
Professor Raleigh, M.A.,
Professor Latta, D.Phil.
} *Ex Officiis.*

President—Norman Smith, D.Phil.

Vice-President—A. P. Crichton.

Secretary—E. H. Jones, 1 The University.

Treasurer—E. MacMillan.

Members of Committee.

Messrs. Bell, Cupples, Paterson, Rowse, and Scott.

GLASGOW UNIVERSITY ENGINEERING SOCIETY.

(Instituted 1891.)

The objects of this Society are the promotion of the study of Engineering and the diffusion of Engineering information among the members, by the reading of papers, by discussions, by visits to Engineering works in progress, and by such other means as the Society shall approve.

The membership is open to all past and present Students of the University.

Office-Bearers for Session 1903-4.

Honorary President—Andrew S. Biggart, A.M.I.C.E.

Honorary Vice-Presidents— { Professor Archibald Barr, D.Sc., M.Inst.C.E.
Professor J. H. Biles, LL.D., M.I.N.A. }

President—J. B. Henderson, D.Sc.

Vice-Presidents.

Engineering—	*Naval Architecture*—
H. Bamford, M.Sc., A.M.I.C.E.	C. S. Douglas, B.Sc.

Secretaries— { Hans A. Reincke, James Watt Laboratory, University.
Bernard P. Haigh, Do. Do. }

Treasurer—D. J. Kerr, James Watt Laboratory, University.

Minute Secretary—Thomas Muirhead.

Committee.

Engineering—	*Naval Architecture*—
W. C. Howatt.	J. B. Dickie.
William Alexander.	Geo. T. Williamson.
N. J. Maclean, B.Sc.	

GLASGOW UNIVERSITY PHYSICAL SOCIETY.

This Society was founded in 1884 "for the discussion of scientific subjects in general, and the diffusion of scientific information among its members, by special communications, and any other means which the Society may from time to time approve."

Meetings are held during the Winter Session on alternate Wednesdays at 3.30 P.M. The syllabus for the year is issued in autumn, and may be had from the Secretary after the commencement of the Winter Session.

All past and present students of the University who are interested in Physical Science are eligible for membership. The subscription for the ensuing year has been fixed at One Shilling.

The Office-Bearers are :—

Honorary President—Lord Kelvin, G.C.V.O., F.R.S.

President—Professor Gray, LL.D., F.R.S.

Vice-President—James Muir, B.A., D.Sc.

Secretary and Treasurer—R. A. Houstoun, M.A.

Letters should be addressed to the Secretary of the Society at the Physical Laboratory.

GLASGOW UNIVERSITY PHOTOGRAPHIC CLUB.

The Club endeavours to further a knowledge of Photography, as an art as well as a science, among all students and former students of this University.

Papers will be read, and discussions and demonstrations take place monthly during the Winter Session. Excursions are held during the Summer Session.

Office-Bearers, 1903-4.

Honorary President—Professor M'Kendrick, M.D., LL.D., F.R.S.
Honorary Vice-President—W. K. Hutton, M.A., M.B., C.M.
President—J. H. Teacher, M.A., M.B., C.M.
Vice-Presidents—J. W. Peck, M.A.
A. Slater Dunlop, M.A.
Honorary Secretary—W. H. Duncan, The Union.
Honorary Treasurer—D. Ross, jun.

Committee.

J. Glaister.
D. A. Dick.
R. Howell.
A. P. Love.
J. Marshall.

GLASGOW UNIVERSITY MISSIONARY SOCIETY.

(Instituted 1821.)

Office-Bearers for 1903-4.

Honorary President—Rev. Thomas Martin, B.D.
President—W. W. Clark.
Vice-President—A. W. S. Forbes, M.A.
Superintendents of Home Missions—William Lindsay, M.A.
Robert Alexander.
Senior Secretary—A. S. Dunlop, M.A., Glenview, Greenock.
Junior Secretary—Gordon Quig.
Librarian—Hector MacLean, M.A.
Treasurers—Thomas Low, M.A.
John R. Spence, M.A.

Summer Committee.

The Office-bearers and Messrs. John Chambers, J. M. Hamilton, M.A., and Donald M'Pherson.

Members of Committee.

From Theology—
J. M. Hamilton, M.A.
W. J. Jamieson.
W. N. Monteith, B.A.
George Muir, M.A.
J. Robertson

From Arts—
A. Bowman.
H. Dunn.
W. K. Whyte.

From Law—
James Waddell.

From Medicine—Robert M'Farlane.

Three Representatives from First Year Theology to be appointed in November.

GLASGOW UNIVERSITY CHRISTIAN UNION.

The object of this Society is the promotion of religious life and fellowship in the University.

The headquarters of the Union are at 65 Bank Street, where there are carried on weekly Bible-reading circles and daily Prayer Meetings. Other features of the work are:—The issue of a Handbook at the beginning of each winter session to all new students, monthly addresses by well-known preachers, deputations to Evangelistic meetings.

Office-Bearers.

Hon. President—Professor Medley, M.A.
Hon. Vice-President—John L. Morison, M.A.
President—Berkeley H. Robertson, M.A., B.Sc.
Vice-President—A. S. Dunlop, M.A.
General Secretary—William Y. Turner, M.A., 65 Bank Street.
Assistant Secretary—Alexander Grant.
Deputation Secretary—John A. Swan.
Bible-circle Secretaries—*Arts*: John M. Hunter. *Medicine*: Wm. B. Jack.
Missionary Secretary—R. C. Thomson.
Treasurer—Tennant Sloan.

Committee.

J. E. Scott. R. Napier. H. Bertram.

GLASGOW UNIVERSITY TOTAL ABSTINENCE SOCIETY.

The object of this Society is to unite the abstaining students in the University, and to promote the cause of Total Abstinence. This work it seeks to accomplish among the students by means of lectures, sermons, etc., while, outside the University, it carries on a successful Temperance Mission Work.

Office-Bearers for 1903-4.

Honorary President—Sir Samuel Chisholm, Bart., LL.D.

Honorary Vice-Presidents.

Geo. A. Gibson, M.A.
A. Cameron Corbett, M.P.
James Carslaw, M.B.
A. Bonar Law. M.P.

President—Miss C. G. Thomlinson.
Vice-President—R. D. Bell, M.A.
Secretary (*pro tem.*)—R. D. Bell, M.A., 6 Albany St., Kelvinside, N.
Treasurer—Thomas Barbour, Students' Settlement, 10 Possil Road.

Committee.

Arts—
J. W. Pratt.
R. H. Napier.
A. Brown.

Science—
G. Seaton.

Medicine—
R. M. Wilson.
Howard Patrick.
Thomas Dishington.

Divinity—
A. S. Dunlop.

From Queen Margaret College—Miss W. D. Morrison, Miss Mackie, Miss Barbour, and Miss M'Leish.

GLASGOW UNIVERSITY '88 MEDICAL CLUB.

The purpose of this Club is to encourage social intercourse among those who studied Medicine at Glasgow University in the years 1884-1888. A Triennial Dinner is held, and communications are addressed at that time to the Members of the Club in all parts of the world.

Office-Bearers for 1902-1905.

Chairman—John Adams, M.B., C.M.

Secretary—T. K. Monro, M.A., M.D., 10 Clairmont Gardens, Glasgow.

Committee.

T. C. Barras, M.B., C.M.
J. P. Boyd, M.B., C.M.
R. M. Buchanan, M.B., C.M.
Andrew Davidson, M.A., M.D.
J. M'C. Johnston, M.A., M.D.
A. Brown Kelly, D.Sc., M.B.
H. L. G. Leask, M.D., C.M.
R. B. Lothian, M.B., C.M.
J. Wyllie Nicol, M.B., C.M.
R. L. Oswald, M.B., C.M.
C. E. Robertson, M.D., C.M.
John Rowan, M.B., C.M.
Wm. Roxburgh, M.D., C.M.
Robert Steele, M.A., M.B.
John Wright, M.B., C.M.

GLASGOW UNIVERSITY '93 CLUB.

The object of the Club is to promote intercourse among the members by means of at least one annual re-union which shall be held as far as possible on the Friday before Christmas. The Membership is limited to students of the University of the session 1892-93.

Office-Bearers for 1903.

President—M. M'Callum Fairgrieve, B.A.

Vice-Presidents—James W. Peck, M.A.
W. F. Smillie.

Secretary and Treasurer—Robert W. M'Clure, B.L.,
172 St. Vincent Street, Glasgow.

Committee.

A. Wylie Blue.
J. Roy Tannahill.
A. H. Charteris, LL.B.
W. M. R. Pringle, LL.B.
Robert Wiseman.
W. A. Burns, M.B., Ch.B.
Thomas Carruthers, M.A., M.B., Ch.B.

GLASGOW UNIVERSITY—NEW CENTURY LAW CLUB.

The object of the Club is to promote friendly intercourse among the Students of Law, by holding at least two social functions in the year.

All Students attending any of the Law Classes in the Glasgow University during the Sessions of 1900 to 1901, and 1901 to 1902, are eligible for Membership on payment of the annual subscription of One Shilling.

Office-Bearers.

Honorary Presidents.

Charles Scott Dickson, K.C., M.P., Solicitor-General for Scotland.
John Boyd, Advocate, Sheriff-Substitute for Lanarkshire.
Professor Alexander Moody Stuart, LL.D., Advocate, } *ex officiis.*
Professor James Moir, LL.D., }

President—George D. Valentine, LL.B.

Vice-Presidents { James Auld.
{ Weir Grieve.

Secretary and Treasurer—David Ross, Jr.,
2 Carlton Terrace, Kelvinside, North, Glasgow.

Committee.

Wm. Boyd Berry, LL.B.
Wm. E. Cameron, M.A.
J. A. Gulliland.
A. G. Kemp.
Wylie R. M'Intyre.
Ed. Rosslyn Mitchell, M.A.
George J. Spreull, M.A.
David Wilson.

GLASGOW UNIVERSITY OSSIANIC SOCIETY.

(Instituted 1828.)

The object of the Society is the discussion of subjects bearing on the language, literature, and customs of the Highlands. It meets in the Union on Friday evenings at seven during the winter session. All meetings are conducted in English with the exception of four, two of which are purely Gaelic, and two composite. Ordinary membership is open to all students, both men and women, interested in the Highlands.

Office-Bearers for Session 1903-4.

Honorary President—Professor Phillimore.

President—Neil Macinnes, M.A.

Vice-Presidents—Angus J. MacVicar and George Ferguson, M.A.

Secretary—Neil M'Phail.

Assistant-Secretary—Neil Johnson.

Treasurer—John Cameron.

Bard—Hector Cameron.

Representative to Union—George Stewart, M.A.

Members of Committee.

Miss Macbean.
Alex. Murray.
Dugald MacCallum.
Donald Macphie.
Alexander Silver.

With two members to be elected from first year's students in November.

THE CHURCH OF SCOTLAND UNDERGRADUATE SOCIETY.

The Society meets every alternate Monday at 7.30 p.m. in the Union for the discussion of literary, social, and religious topics, and for the promotion of social intercourse among its members.

All undergraduate students connected with the Church of Scotland are eligible for membership. An undergraduate shall mean a student in any Faculty who has not graduated in that Faculty.

The annual subscription is one shilling for Union members and one shilling and sixpence for non-Union members.

Office-Bearers for 1903-04.

Honorary President—Professor Robertson, D.D.

President—F. W. Saunders, M.A.

Vice-President—W. K. Whyte.

Secretary—H. D. Sempill, Broomfield, Newhouse, Stirling.

Treasurer—T. Baxter.

Committee.

Messrs. J. Young, H. F. Watson, P. A. M. M'Donald, D. Gordon, D. Wilson, A. A. Bowman, R. Jenkins.

GLASGOW UNIVERSITY UNITED FREE CHURCH STUDENTS' CELTIC SOCIETY.

This Society was instituted in 1864. All United Free Church students connected with or interested in the Highlands are eligible for ordinary membership. It meets in one of the United Free Church College Classrooms every Friday evening during the Session for the discussion of various subjects, chiefly literary and political. At two of the meetings the business is conducted in Gaelic.

Office-Bearers for 1903-4.

Honorary President—Rev. G. H. Morrison.

President—W. S. Sutherland, M.A.

Vice-President—John D. M'Callum, M.A.

Secretary—T. D. Mackenzie, Jun., 16 Vinicombe Street.

Treasurer—Archibald Young, M.A.

Directors.

Divinity—
Alexander Macbean, M.A.
Arts—
Duncan Blair.
Archibald Shaw.

Medicine—
F. M. Ross.
R. C. Robertson.

GLASGOW UNIVERSITY UNITED FREE CHURCH STUDENTS' SOCIETY.

(Instituted 1845.)

Honorary President—Rev. Adam C. Welch, B.D.

President—James W. More.

Vice-Presidents—John D. Simpson and John Baillie.

Secretary—James Ritchie, The Union.

Treasurer—Hugh Smith.

Editor of Magazine—David J. Leggat.

Committee.

Duncan Blair, G. Elliott, W. M. Ogilvy, T. D. Mackenzie, and one to be elected in October.

This Society meets every Saturday at 10.30 a.m. in the Union.

The objects of the Society are the promotion of social intercourse and the furtherance of moral and intellectual culture among its members.

All Students attending the University in any Faculty, who are connected with the United Free Church, are eligible for membership, which is obtained by the payment of the annual subscription of One Shilling and Sixpence. Students not connected with the above Church may become Associates.

GLASGOW UNIVERSITY ATHLETIC CLUB.

Office-Bearers for 1903-4.

Honorary President—Professor Medley, M.A.

Hon. Vice-Presidents—Professor Bower, Messrs. J. B. Brown, R. Hutchison, Warren Crosbie, and Dr. John F. Fergus.

President—L. D. Shaw.

Hon. Treasurer—Dr. W. H. Lang.

Hon. Secretary—James R. Kerr, 15 India Street, Glasgow.

Committees of Sections—

Rugby Football—C. C. Fitzgerald (captain), L. D. Shaw, J. W. Arthur, J. Young, N. B. Stewart, S. J. Gardner (Secy.).

Fives—K. O. Macleod (captain), D. A. Slater, J. R. C. Greenlees, A. P. Love, W. N. Monteith (Secy.).

Golf—Professor Stockman (convener), Professor Ramsay, G. Lean, Dr. J. B. Henderson, J. Brown, W. G. M'Beth, David M'C. Hutchison (Secy.)

Running—L. D. Shaw, N. B. Stewart, J. Unsworth, S. J. Gardner, James R. Kerr, James M. Clark (Secy.).

Cycling—Prof. Medley, Dr. Walter Colquhoun, Dr. A. R. Ferguson, Dr. John F. Fergus, James R. Kerr (captain), Archd. S. Wilson, R. W. Simpson, G. Beattie, J. B. M'Ewan, H. W. Dyke, R. West Watson, David A. Dick (Secy.).

Cricket—

Tennis—

Swimming—

Executive Committee.

The Officials, Secretaries of Sections, J. W. Arthur, and William M. Milne.

The object of the Club is the promotion of all forms of Athletic exercise. The Membership is confined to present and past Students of the University.

Subscriptions: Athletic Club, Two Shillings and Sixpence, and in addition as follows: Rugby Football, Seven Shillings and Sixpence; Fives Club, Three Shillings; Golf Club, Four Shillings and Sixpence; Running, ; Cycling, Two Shillings and Sixpence; Cricket, ; Tennis, ; Swimming, . Inclusive Subscription, One Guinea.

ALMA MATER CLUB.

This Club, founded in the year 1903, has as its object the promoting of the social life of the students, past and present, of the University. In the course of the session it holds musical At Homes, smoking concerts, a dramatic production, and a dance. Students, past and present, and members of the teaching staff, past and present, of Glasgow University may become members of the Club. The annual subscription is Five Shillings. The following are the Office-Bearers for the year:

Honorary President—The Principal.

Honorary Vice-Presidents—Professor Raleigh and Miss Galloway.

Convener and Secretary—Nigel Carlyle Graham.

Sub-Convener—Mary Theresa Gallagher.

Treasurer—John Bain.

GLASGOW UNIVERSITY RIFLE CLUB.

Office-Bearers for 1903-1904.

President—The Very Rev. Principal Story, D.D., LL.D.

Vice-Presidents—Sir John Stirling Maxwell, Bart., and Professor Bower.

Team Captain—J. M. Campbell (Major 3rd V.B.A. and S.H.), Auldfield Place, Pollokshaws.

Vice-Captain—P. F. W. Edington (Lieut., 1st L.R.V.).

Secretary, Treasurer, and Students' Convener—George N. Kirkwood, The Union.

Committee—T. E. Robinson (Major 1st L.R.V., retired), F. W. Heys (Captain, 3rd V.B.A. and S.H.), R. P. Purdie (Sergt., 2nd V.B.S.R), Messrs. G. N. Kirkwood, T. G. Copestake, and S. C. Adam.

Its objects shall be to promote rifle shooting among students and ex-students of Glasgow University, and to provide the means of having Glasgow University well represented, by a team consisting of five students and five ex-students, in the annual match for the Inter-University Trophy.

Glasgow University won the Trophy last year, being represented by the following team at Aberdeen:

Ex-students—Major Campbell, Messrs. Edington, W. Nelson, Purdie, and Heys.

Students—Messrs. F. G. Copestake, S. R. Skilling, A. Main, G. H. Downie, and J. R. Coats.

All students and ex-students of Glasgow University shall be eligible as Patrons and Ordinary Members. All persons officially connected with the University shall be eligible as Patrons. Both classes of Members may take part in the competitions.

All persons, eligible as above, subscribing 10s. or upwards annually, shall be *ipso facto* Patrons. The subscription for Ordinary Members shall be 5s. for ex-students, and 2s. 6d. for present students, all payable by 1st March annually. These annual subscriptions may be commuted by a present payment of £3 3s., entitling the person paying to become a Life Patron.

GLASGOW UNIVERSITY CLUB, LONDON.

The objects of the Club are to maintain good fellowship among its members and to promote the interests of the University of Glasgow and of higher education in connection therewith.

Graduates, and all who are or have been students of the University of Glasgow, or officially connected with it, are eligible for membership.

Office-Bearers for 1903-1904.

President—

The Right Honourable Lord Kelvin, O.M., G.C.V.O., F.R.S., D.C.L., LL.D.

Vice-Presidents—

Professor David W. Finlay, M.D., F.R.C.P.
Sir W. T. Gairdner, K.C.B., M.D., LL.D., F.R.S.
Lord Kinnear.
Sir W. H. White, K.C.B.
The Right Honourable Lord Balfour of Burleigh, K.T.
Dr. Geo. A. Heron, F.R.C.P.
The Very Rev. Principal Story, D.D., LL.D.

Council—

Peter Abercrombie, M.D.
Matthew A. Adam, B.Sc.
A. S. Murray, LL.D.
W. W. Don, M.D.
Professor J. W. Hales, M.A.
R. A. Ker, Esq.
Professor Bradley, M.A., LL.D.
Professor Dewar, F.R.S.
Norman M. MacLehose, M.B., C.M.
Lt.-Col. Wm. Babtie, V.C.
Rev. A. J. Carlyle, M.A.
Dr. Malcolm Mackintosh.

Honorary Treasurer—Guthrie Rankin, M.D., M.R.C.P., 4 Chesham Street, Belgrave Square, S.W.

Honorary Secretaries—

James M. Dodds, M.A., Dover House, Whitehall, S.W.
C. O. Hawthorne, M.D., M.R.C.P., 28 Weymouth Street, Portland Place, W.

APPENDIX IV.

LOCAL COMMITTEE FOR THE TRAINING OF TEACHERS.

This Committee has been formed for the purpose of instituting a system of training of teachers which shall satisfy the requirements of the Scotch Code and of the Education Department's Circular No. 329.

Students who desire to enter upon the course of training must in every case have passed the University Preliminary Examination in Arts or in Science, or its equivalent. The Committee is prepared to offer training to graduates as well as to undergraduates. In the case of undergraduates the course of training extends over a period of at least two years. The conditions as regards graduates may be ascertained on application to Professor Latta, the Chairman of the Committee.

The subjects of instruction will include A, English and Science; B, voice production and phonetics, drawing, singing, and (for women) needlework; and C, the principles of education and school methods and practice in teaching. The subjects of A and C must be taken by all candidates for the teachers' certificate; but exemption may be obtained from some or all of the subjects of B. The Committee proposes to offer classes in certain additional subjects, such as Religious Instruction, Geography, and physical exercises and drill.

A moderate fee will be charged for the course of training, and students who pay this fee will be free from any obligation to serve in any particular class of school. It is, however, open to any qualified student to obtain the training without payment of a fee; but every such student must come under an obligation to enter, within a reasonable time, upon recorded service in public or state-aided schools under the Code.

The Committee is also prepared to consider applications for a limited number of scholarships, of varying amount, from students who may require aid in the prosecution of their studies. Students who receive these scholarships must come under the above-mentioned obligation to teach in elementary schools.

It is intended to institute the system of training in Session 1903-1904. Further details regarding the scheme will be made known when arrangements have been completed. All communications should be addressed to Professor Latta, Local Committee for the Training of Teachers, The University, Glasgow.

APPENDIX V.

ORDINANCE NO. 2 MADE BY THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW.

REGULATIONS FOR DEGREES IN SCIENCE IN PUBLIC HEALTH.

I. Two degrees in Science in Public Health shall be conferred by the University of Glasgow, viz.: Bachelor of Science in Public Health (B.Sc. Pub. Health), and Doctor of Science in Public Health (D.Sc. Pub. Health).

B.SC. IN PUBLIC HEALTH.

II. Candidates for the degree of Bachelor of Science in Public Health must be graduates in Medicine of a University of the United Kingdom, or of some other University recognised for the purpose by the University Court of the University of Glasgow.

III. Candidates must be matriculated for the year in which they appear for examination or graduation.

IV. Candidates shall be admitted to the Degree of Bachelor of Science in Public Health, only after they have fulfilled the following conditions, viz.: they must produce evidence

(1) That, after their graduation in Medicine, they have received practical instruction, including instruction in Chemistry, Bacteriology, and the Pathology of the Diseases of Animals transmissible to man, for at least 20 hours per week during a period of not less than eight months, of which at least five consecutive months must be in the Public Health Laboratory of the University of Glasgow, and the remainder in the foresaid Laboratory, or in a Public Health Laboratory recognised for the purpose by the University Court:

(2) That they have attended either before or after graduation in Medicine, such courses on (*a*) Physics and (*b*) Geology, either in the University of Glasgow or elsewhere, as would qualify for graduation in Science or Arts in the said University; or have attended in said University or any other Scottish University in addition to the course in Physics qualifying for graduation in Medicine, such further course in Physics as the Senatus Academicus, with the approval of the University Court, shall deem necessary, and such a course in Geology extending over not less than three months, as the Senatus with the like approval shall deem sufficient and appropriate.

(3) That after their graduation in Medicine they have attended two separate courses in Public Health, one course dealing with Medicine and consisting of seventy-five meetings of the class, the other with Engineering and consisting of twenty-five meetings of the class, each in its relation to Public Health, in such manner as the Senatus Academicus, with the approval of the University Court, shall determine.

(4) That after their graduation in Medicine they have for six months, three of which must be continuous, practically studied sanitary work under the supervision of:

(*a*) In England and Wales, the Medical Officer of Health of a County or of a single Sanitary District having a population of not less than 50,000, or a Medical Officer of health devoting his whole time to Public Health work; or

(*b*) In Scotland, a Medical Officer of Health of a County or Counties, or of one or more Sanitary Districts having a population of not less than 30,000; or

(*c*) In Ireland, a Medical Superintendent Officer of Health of a District or Districts having a population of not less than 30,000; or

(*d*) A Medical Officer of Health who is also a Teacher in the Department of Public Health of a recognised Medical School.

Half of the above period must be devoted solely to the study of sanitary work as aforesaid; the other half partly to the same study.

(5) That after their graduation in Medicine they have attended during three months the practice of an Hospital for Infectious Diseases in an Hospital at which opportunities are afforded for the study of Methods of Administration, recognised for the purpose by the University Court; and

(6) That they have had three months' instruction in Mensuration and Drawing under a teacher recognised for the purpose by the University Court.

V. Each candidate shall be examined both in writing and orally, and also practically where the nature of the subject admits in the following divisions, viz.: *First*, in (*a*) Public Health Laboratory work, (*b*) Physics, and (*c*) Geology, if an examination in Physics or Geology, as the case may be, qualifying for graduation either in Science or Arts has not previously been passed by the Candidate: *Second*, in (*a*) Sanitation, including reports on dwellings, workshops, hospitals, and sanitary schemes generally, (*b*) Sanitary Law, (*c*) Vital Statistics, and (*d*) Medicine in its bearings on Public Health, and the examinations in these subjects shall be taken at one time.

VI. Candidates who have passed their examinations in the subjects comprised in the first division shall not be admitted to examination in the second division sooner than eighteen months after having taken their degree in Medicine, nor sooner than six months after having passed the first examination.

VII. The Board of Studies for the Faculty of Science along with the Lecturer or Professor of Public Health shall from time to time, with the approval of the Senatus and the University Court, determine and announce the character of the instruction to be given in the Laboratory, and shall fix the standard of the examinations.

VIII. It shall also be competent for the University Court, after consultation with the Senatus, to modify from time to time the provisions as to the work and instruction hereinbefore specified as necessary for graduating in Science in Public Health, in case such modification shall be rendered desirable by the development of the Science of Public Health, or by increase of the facilities provided in the said University or elsewhere for the study of any branch of the said Science.

IX. The Examiners for graduation in Science for the Degree of B.Sc. in Public Health in the University of Glasgow shall be the Professors in that University whose subjects qualify for graduation in Science, together with such Lecturers in the University, and such additional Examiners to be appointed by the University Court as the University Court shall deem necessary, provided that the Court shall make such provision as will ensure that every candidate shall be examined in each subject by at least two Examiners, of whom one shall not be a Professor or Lecturer in the University. Provided also that the Examination under Section V. in Sanitation, including reports of dwellings, workshops, and hospitals, and sanitary schemes generally, shall be conducted by two Examiners, one of whom shall be a Medical Officer of Health, and the other shall be the Professor of, or Lecturer on, Public Health in the University.

D.Sc. IN PUBLIC HEALTH.

X. Graduates who have held the degree of Bachelor of Science in Public Health from the University of Glasgow for a term of five years, may offer themselves for the Degree of Doctor of Science in Public Health in the said University.

XI. Each candidate for the degree of Doctor of Science in Public Health shall present a thesis or a published memoir or work to be approved by the Senatus, on the recommendation of the Faculty of Science, and shall also be required to pass an examination in Public Health, and in such of its special departments as the Senatus, with the approval of the University Court, by regulations framed from time to time, shall determine.

The thesis, or published memoir or work, shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done, and the thesis or memoir composed by himself.

XII. The Senatus Academicus shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves under the provisions of this Ordinance for the Degree of Doctor of Science, and the University Court shall, after consultation with the Senatus Academicus, appoint such additional Examiners as they deem necessary to act along with them. Such additional Examiners shall be persons of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval, and may be Professors or Lecturers in any Scottish University other than the University of Glasgow.

XIII. The thesis, memoir, or work submitted by a candidate for the Degree of Doctor of Science shall in each case be examined by the additional Examiner to be appointed by the University Court, as well as by the Examiners to be appointed by the Senatus under the provisions of Section XII. of this Ordinance.

XIV. The result of the examination of the thesis, memoir, or work submitted by a candidate, as well as the result of the Examination prescribed under Section XI. of this Ordinance, shall be reported to the Faculty of Science.

General.

XV. Candidates who produce certificates bearing that, either before or after, or partly before and partly after, the date at which this Ordinance shall come into force, they have satisfied the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degrees of Bachelor of Science in Public Health and Doctor of Science in Public Health, as the case may be, on payment of the fees required.

XVI. The degrees of Bachelor and Doctor of Science in Public Health shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

XVII. This Ordinance shall come into force from and after the date on which it is approved by His Majesty in Council.

Approved, 20th May, 1903.

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